1986
Joint Association
SURVEY ON DRILLING COSTS

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- Independent Petroleum Association of America
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1986

Joint Association SURVEY ON DRILLING COSTS

Finance, Accounting
and Statistics Department

American
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PREFACE

The purpose of the Joint Association Survey is to provide annual information pertaining to the cost of drilling oil and gas wells and dry holes in the United States.

As in prior years, data for the 1986 JAS were collected from the petroleum industry through the joint efforts of the American Petroleum Institute, the Independent Petroleum Association of America, and the Mid-Continent Oil and Gas Association.

Washington, D.C.
November 1987

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1986
Joint Association
SURVEY ON DRILLING COSTS

SUMMARY OF FINDINGS. Findings pertaining to 1986 drilling costs and activity in the United States may be summarized as follows:

- The **total cost** of drilling and equipping oil and gas wells and dry holes in 1986 amounted to approximately $13,522 million, a decrease of 42.8 percent from 1985.

- The **average depth of oil wells** completed in 1986 was 4,168 feet, an increase of 2.9 percent; the **average cost per** foot in 1986 was $68.35, an increase of 2.4 percent from the previous year.

- The **average depth of gas wells** completed in 1986 was 5,622 feet, an increase of 2.9 percent; the **average cost per foot** in 1986 was $93.02, a decrease of 0.1 percent from the previous year.

- The **average depth of dry holes** drilled in 1986 was 5,086 feet, an increase of 0.7 percent; the **average cost per foot** was $76.53, an increase of 3.9 percent from 1985.

- The **total number of wells drilled** in 1986 decreased 45.2 percent and the **total footage drilled** decreased 43.9 percent.

- The **total cost of offshore wells** completed in 1986 amounted to approximately $3,596 million, a decrease of 29.2 percent from 1985. The **total number of offshore wells** decreased 28.0 percent from 1985 while the **average depth** increased 1.9 percent. The **average cost per foot** in 1986 was $382.27 a decrease of 3.5 percent.

- The comparison of drilling activity and the cost of various types of wells completed in 1985 and 1986 is as follows:

	Oil Wells		Gas Wells	
	1985	1986	1985	1986
Wells Drilled	33,800	18,198	13,854	7,351
Footage Drilled (000)	136,889	75,847	75,707	41,324
Total Cost (millions)*	$ 9,141	$5,184	$7,047	$3,844
Average Depth (feet)	4,050	4,168	5,465	5,622
Average Cost Per Well*	$270,446	$284,872	$508,672	$522,906
Average Cost Per Foot*	$66.78	$68.35	$93.09	$93.02

	Dry Holes		Total Wells	
	1985	1986	1985	1986
Wells Drilled	20,167	11,624	67,821	37,173
Footage Drilled (000)	101,894	59,118	314,490	176,290
Total Cost (millions)*	$7,508	$4,524	$23,697	$13,552
Average Depth (feet)	5,053	5,086	4,637	4,742
Average Cost Per Well*	$372,311	$389,232	$349,399	$364,577
Average Cost Per Foot*	$73.69	$76.53	$75.35	$76.88

*Includes all costs incurred for drilling and equipping wells through the "Christmas tree."

NOTE: Totals may not agree with the sum of the individual items because of independent rounding.

DESCRIPTION OF SURVEY. The 1986 Joint Association Survey (JAS) contains information on drilling costs derived from a sample of wells, footage, and costs collected from operators of different sizes who drilled wells in various areas of the United States. The drilling costs reported are those incurred for drilling and equipping wells through the "Christmas tree."

Estimates of drilling costs were derived by combining sample data with the 1986 drilling statistics as compiled by the American Petroleum Institute (API) and the Committee on Statistics of Drilling of the American Association of Petroleum Geologists (AAPG-CSD). The procedures for preparing these estimates for the 1986 JAS are described in the following sections.

DEFINITIONS. Copies of the 1986 questionnaire, instructions, and definitions may be found in Appendixes A and B. Maps showing geographic subdivisions of Alaska, California, Louisiana, New Mexico, Texas, Offshore Federal Waters Alaska, Offshore Federal Waters Atlantic Coast, Offshore Federal Waters Gulf of Mexico-Northern, and Offshore Federal Waters Pacific Coast are shown in Appendix F.

THE 1986 UNIVERSE. In 1986, the American Petroleum Institute replaced its system of reporting well completions by month of report, (the Quarterly Review of Drilling Statistics), with a dynamic system of reporting wells by month of completion, (the Quarterly Completion Report). This change was instituted to correct the distortions in the data caused by the long lag time between the actual well completion and the reporting of the completion. As a result of these changes, there will be no "final" count of 1986 well completions until year-end 1989. Consequently,there will be no reconciliation of the 1986 Survey on Drilling Costs with the Quarterly Completion Report (QCR). The 1986 Survey universe consists of all 1986 wells reported to the Quarterly Completion Report through September 1987, excluding old wells drilled deeper and sidetracked wells, plus wells reported and confirmed by Survey respondents as having been drilled in 1986 but not yet reported to the Quarterly Completion Report. The 1986 Survey on Drilling Costs universe includes 35,924 wells reported to the QCR plus 1,249 wells reported by respondents but not yet reported to the QCR, a total of 37,173 wells. As of the end of the Third Quarter 1987, the estimate of total wells drilled in 1986 was, according to the QCR, 38,564.

THE 1986 SAMPLE. As in previous years, questionnaires were mailed to operators which were recorded as having drilled wells in the different areas of the United States during 1986. Replies to the Survey were contingent upon voluntary responses, with a continued effort being made to increase the sample size, particularly with respect to the smaller operators. An analysis of the number of companies (operators), classified by the number of wells drilled, included in the sample for the years 1982-1986 is shown in Appendix E.

The number of oil wells, gas wells, and dry holes reported to the JAS in 1985 and 1986 as percentages of total wells drilled in each of the six selected states is as follows:

	Percent of Total					
	Oil Wells		Gas Wells		Dry Holes	
	1985	1986	1985	1986	1985	1986
California	94	93	62	51	63	62
Kansas	28	26	39	31	32	34
Louisiana	27	40	38	39	42	44
New Mexico	59	62	49	69	50	41
Oklahoma	29	33	38	43	30	34
Texas	40	41	47	44	30	30

The following tabulation shows the total number of wells and footage reported to the JAS in 1985 and 1986 as compared to the wells and footage which comprised the JAS drilling universe for these two years.

	1985 Survey			1986 Survey		
	Total	Sample	Percent of Total	Total	Sample	Percent of Total
Oil Wells	33,800	13,410	39.7	18,198	8,379	46.0
Footage (thousands)	136,889	65,225	47.6	75,847	40,694	53.7
Total Cost (millions)	$9,141	$5,286	57.8	$5,184	$3,472	67.0
Gas Wells	13,854	5,007	36.1	7,351	2,867	39.0
Footage (thousands)	75,707	34,346	45.4	41,324	20,205	48.4
Total Cost (millions)	$7,047	$4,135	58.7	$3,844	$2,412	62.7
Dry Holes	20,167	6,621	32.8	11,624	4,047	34.8
Footage (thousands)	101,894	45,097	44.3	59,118	28,089	47.5
Total Cost (millions)	$7,508	$4,780	63.7	$4,524	$3,068	67.8
Total Wells	67,821	25,038	37.0	37,173	15,293	41.1
Footage (thousands)	314,490	144,668	46.0	176,290	88,989	50.5
Total Cost (millions)	$23,697	$14,200	60.0	$13,552	$8,952	66.1

NOTE: Totals may not agree with the sum of the individual items because of independent rounding.

DETERMINATION OF UNREPORTED WELLS AND FOOTAGE. Individual wells (and footage) derived by adjustment of QCR data were classified according to type of well (oil, gas or dry), location, and depth. Individual wells reported to the JAS were classified in like manner. The wells and footage reported to the JAS in each category were subtracted from the number of wells and footage in corresponding categories for the adjusted universe. The difference represented the unreported wells and footage by type of well, location, and depth interval.

ESTIMATION OF TOTAL COSTS. The average cost per foot drilled in each category was computed on the basis of information reported to the JAS. Based on the sample wells reported for each area, least squares regression analysis was used to determine the functional relationship between the cost per foot and well depth for each type of well. (See Appendix G for a description of the methodology.)

The cost per foot for the unreported wells in each category was then estimated from the least squares analysis for each area. For the relatively few unreported wells falling outside the depth range of the sample, for which regression analysis did not provide meaningful estimates, cost estimates were based on an analysis of costs in similar areas and of prior years' data. This was necessary for approximately 5.7 percent of all unreported wells.

The cost per foot for the unreported wells was then multiplied by the unreported footage in each depth range to obtain the unreported cost for each category. Total estimated expenditures were obtained by adding the reported costs to estimated unreported costs.

FINDINGS FOR 1986. Cost data are shown in Tables 1-53 for the Total United States, Total Onshore United States, and Total Offshore United States as well as for Offshore Federal Waters and Gulf of Mexico-Northern.

Those wells drilled in the Atlantic Coast Federal Waters, Alaska Federal Waters, and Pacific Coast Federal Waters are not shown separately to avoid disclosure of proprietary data, but are included in Table 52, "Offshore Federal Waters" on page 58. However, total wells, footage, and costs for these areas are shown in Table 1.

In addition, expenditures are reported for the individual states and for the subdivisions of Alaska, California, Louisiana, New Mexico, and Texas.

SUMMARY OF SAMPLE DATA FOR 1986. Additional information concerning the cost of exploratory, development, single completion, and multiple completion wells as reported to the Joint Association

Survey is summarized for the United States in Appendixes C and D.

Sample data in these four categories, summarized by depth intervals for individual states, may be purchased from the American Petroleum Institute on magnetic tape or in the form of a computer listing. Data in either format are summarized to the extent necessary to avoid disclosure of individual well costs.

Requests for price quotations should be directed to: the Manager, Exploration and Production Statistics, Finance, Accounting, and Statistics Department, American Petroleum Institute, 1220 L Street, Northwest, Washington, D.C. 20005. (Note: Orders will be accepted only for the complete summary.)

TABLES CONTAINING FINDINGS

Please note that the average depth and cost per well have not been rounded upward on the following tables.

TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND ESTIMATED DRILLING

TABLE 1

STATE	OIL WELLS			GAS WELLS		
	WELLS DRILLED	TOTAL FOOTAGE	COST	WELLS DRILLED	TOTAL FOOTAGE	COST
ALABAMA ***	29	196,145	14,916,405	61	272,994	25,582,705
ALASKA - ONSHORE	226	2,193,580	497,055,863	2	14,927	7,886,917
ALASKA - OFFSHORE	10	108,676	36,457,731	1	7,721	1,790,891
ALASKA - TOTAL	236	2,302,256	533,523,594	3	22,648	9,677,808
ARKANSAS	151	486,792	16,824,440	154	719,166	48,440,789
CALIFORNIA - NORTH	3	16,933	1,044,027	79	540,880	40,264,592
CALIFORNIA -CENTRAL COASTAL	105	423,094	50,337,396	--	--	--
CALIFORNIA - EAST CENTRAL	2,047	3,501,665	251,122,360	7	42,501	1,767,231
CALIFORNIA - SOUTH	72	221,922	24,936,205	1	11,486	1,520,642
CALIFORNIA - OFFSHORE	47	323,667	74,432,135	2	12,954	9,342,182
CALIFORNIA - TOTAL	2,274	4,487,281	401,872,123	89	607,821	52,894,647
COLORADO	304	2,021,434	84,766,926	411	2,607,298	109,549,983
FLORIDA	6	89,427	13,822,906	--	--	--
ILLINOIS	678	1,559,085	55,712,261	23	17,233	488,767
INDIANA	168	254,880	8,101,856	20	26,249	981,329
KANSAS	1,285	3,782,656	108,689,885	376	1,050,102	45,091,570
KENTUCKY	247	330,206	11,619,882	209	502,306	27,094,451
LOUISIANA - NORTH	660	1,476,690	47,759,895	282	1,146,424	48,757,921
LOUISIANA - SOUTH	240	1,979,869	218,045,698	138	1,703,060	287,528,430
LOUISIANA - OFFSHORE	228	2,206,577	604,890,041	122	1,323,456	446,385,625
LOUISIANA - TOTAL	1,128	5,663,136	870,695,634	542	4,172,940	782,671,976
MICHIGAN	116	505,919	32,203,879	70	355,573	39,480,570
MISSISSIPPI	82	724,533	45,006,855	35	383,599	60,256,815
MONTANA	78	476,768	34,603,455	92	151,311	5,503,351
NEBRASKA	42	225,181	12,592,648	1	3,769	80,388
NEW MEXICO - EAST	379	2,461,785	145,334,542	70	585,781	47,667,110
NEW MEXICO - WEST	112	711,709	51,004,547	169	980,115	49,273,159
NEW MEXICO - TOTAL	491	3,173,494	196,339,089	239	1,565,896	96,940,269
NORTH DAKOTA	108	1,066,909	80,073,384	3	42,355	4,352,093
OKLAHOMA	2,026	9,675,091	508,397,868	1,035	6,725,020	520,532,428
TEXAS RRC DIST. 1	1,149	2,308,317	75,214,813	49	260,607	18,055,078
TEXAS RRC DIST. 2	91	524,574	33,198,636	155	1,106,717	10..521,412
TEXAS RRC DIST. 3	392	2,556,987	166,631,284	158	1,434,997	153,511,927
TEXAS RRC DIST. 4	143	852,890	42,845,067	363	3,249,071	358,204,338
TEXAS RRC DIST. 5	160	961,934	51,443,441	61	597,393	61,912,134
TEXAS RRC DIST. 6	259	1,408,359	75,897,155	205	1,647,835	117,238,706
TEXAS RRC DIST. 7B	968	2,836,653	88,006,875	260	849,739	30,818,102
TEXAS RRC DIST. 7C	520	2,991,484	139,116,897	70	509,045	20,437,988
TEXAS RRC DIST. 8	1,324	8,115,255	437,185,565	36	381,506	114,260,888
TEXAS RRC DIST. 8A	595	3,701,035	178,169,237	4	20,439	972,134
TEXAS RRC DIST. 9	947	2,790,234	97,672,140	105	581,333	26,753,000
TEXAS RRC DIST. 10	242	1,150,939	59,294,070	87	771,929	55,400,549
TEXAS - OFFSHORE	7	58,765	18,122,985	69	827,623	402,712,576
TEXAS - TOTAL	6,797	30,257,526	1,462,798,165	1,622	12,237,234	1,462,798,832
UTAH	98	818,311	86,952,049	51	325,397	32,557,230
WYOMING	340	2,087,324	145,886,432	48	495,486	119,550,063
APPALACHIAN *	1,424	5,136,930	146,091,140	2,056	8,097,304	277,434,416
OFFSHORE FED. - ALASKA	--	--	--	--	--	--
OFFSHORE FED. - ATLANTIC	--	--	--	--	--	--
OFFSHORE FED. - GULF NORTH	34	393,808	282,072,709	13	128,355	81,014,100
OFFSHORE FED. - PACIFIC	7	47,436	25,014,462	--	--	--
OFFSHORE FED - TOTAL	41	441,244	307,087,171	13	128,355	81,014,100
OTHER UNITED STATES **	49	84,813	5,524,829	198	813,902	40,508,0 3
TOTAL OFFSHORE ***	333	3,138,929	1,040,990,063	207	2,300,109	941,245,374
TOTAL ONSHORE	17,865	72,708,412	4,143,102,813	7,144	39,023,849	2,902,637,219
TOTAL U.S.	18,198	75,847,341	5,184,092,876	7,351	41,323,958	3,843,882,593
EXPLORATORY WELLS	1,045	6,502,692	478,270,037	791	5,524,675	775,743,109
DEVELOPMENT WELLS	17,153	69,344,649	4,705,822,839	6,560	35,799,283	3,068,139,484

* INCLUDES NEW YORK, OHIO, PENNSYLVANIA, AND WEST VIRGINIA.
** INCLUDES ARIZONA, GEORGIA, IDAHO, IOWA, MARYLAND, MISSOURI, NEVADA, OREGON, SOUTH DAKOTA, TENNESSEE, AND VIRGINIA.
*** INCLUDES FOUR WELLS FOR ALABAMA OFFSHORE.

COSTS FOR OIL AND GAS WELLS, AND DRY HOLES, BY STATE - 1986

TABLE 1

DRY HOLES			TOTAL WELLS			
WELLS DRILLED	TOTAL FOOTAGE	COST	WELLS DRILLED	TOTAL FOOTAGE	COST	STATE
124	726,917	90,211,564	214	1,196,056	130,710,674	ALABAMA ***
16	142,161	89,778,525	244	2,350,668	594,731,405	ALASKA - ONSHORE
2	19,323	20,232,130	13	135,720	58,480,812	ALASKA - OFFSHORE
18	161,484	110,010,815	257	2,486,388	653,212,217	ALASKA - TOTAL
176	730,775	21,615,669	481	1,936,733	86,380,898	ARKANSAS
72	441,873	24,677,303	154	999,686	65,985,922	CALIFORNIA - NORTH
13	120,596	20,365,119	118	543,790	70,702,515	CALIFORNIA -CENTRAL COASTAL
54	407,414	33,536,556	2,108	3,951,580	286,426,147	CALIFORNIA - EAST CENTRAL
7	30,237	2,508,902	80	263,645	28,965,749	CALIFORNIA - SOUTH
--	--	--	49	336,621	83,774,317	CALIFORNIA - OFFSHORE
146	1,000,220	81,087,380	2,509	6,095,322	535,854,650	CALIFORNIA - TOTAL
319	1,781,454	95,031,642	1,034	6,410,186	289,648,551	COLORADO
7	101,474	9,655,491	13	190,901	23,478,397	FLORIDA
465	951,372	18,362,713	1,166	2,527,690	74,563,741	ILLINOIS
179	307,869	6,119,235	367	588,998	15,202,420	INDIANA
1,334	4,805,506	78,934,647	2,995	9,638,264	232,716,102	KANSAS
413	528,951	10,863,214	869	1,361,463	49,577,547	KENTUCKY
461	1,990,249	50,054,108	1,403	4,613,363	146,571,924	LOUISIANA - NORTH
384	4,310,837	505,421,559	762	7,993,766	1,010,995,687	LOUISIANA - SOUTH
219	2,384,433	721,363,323	569	5,914,466	1,772,638,989	LOUISIANA - OFFSHORE
1,064	8,685,519	1,276,838,990	2,734	18,521,595	2,930,206,600	LOUISIANA - TOTAL
301	1,571,161	88,692,679	437	2,432,653	160,377,128	MICHIGAN
185	1,595,906	81,732,187	302	2,704,038	186,995,857	MISSISSIPPI
178	728,690	47,523,603	348	1,356,769	87,630,409	MONTANA
100	545,216	9,827,431	143	774,166	22,490,467	NEBRASKA
149	922,789	50,993,146	598	3,970,355	243,994,798	NEW MEXICO - EAST
32	114,410	5,618,629	313	1,806,234	105,896,335	NEW MEXICO - WEST
181	1,037,199	56,611,775	911	5,776,589	349,891,133	NEW MEXICO - TOTAL
109	914,651	45,090,371	220	2,023,915	129,515,848	NORTH DAKOTA
1,220	8,317,024	281,563,016	4,281	22,717,135	1,310,493,312	OKLAHOMA
443	1,369,870	51,320,409	1,641	3,938,794	144,590,300	TEXAS RRC DIST. 1
206	1,352,057	68,010,599	452	2,983,348	203,730,647	TEXAS RRC DIST. 2
326	2,549,870	196,186,549	876	6,541,854	516,329,760	TEXAS RRC DIST. 3
324	2,268,543	160,371,812	830	6,369,504	561,421,217	TEXAS RRC DIST. 4
143	625,716	29,594,271	364	2,185,093	142,949,846	TEXAS RRC DIST. 5
205	1,268,035	56,324,287	669	4,324,229	249,660,148	TEXAS RRC DIST. 6
998	2,955,953	69,826,185	2,226	6,642,345	188,551,162	TEXAS RRC DIST. 7B
271	1,283,634	45,874,326	861	4,784,163	205,429,211	TEXAS RRC DIST. 7C
268	1,921,588	155,354,166	1,628	10,418,349	706,300,619	TEXAS RRC DIST. 8
239	1,627,111	58,780,730	838	5,348,585	237,922,101	TEXAS RRC DIST. 8A
698	2,439,167	51,185,353	1,750	5,810,784	175,510,493	TEXAS RRC DIST. 9
95	813,136	41,683,537	424	2,736,004	156,378,206	TEXAS RRC DIST. 10
59	541,928	241,973,709	135	1,528,316	662,809,270	TEXAS - OFFSHORE
4,275	21,116,608	1,226,485,983	12,694	63,611,368	4,152,082,980	TEXAS - TOTAL
47	270,957	23,628,635	196	1,414,665	143,237,914	UTAH
420	3,396,506	180,275,326	808	5,979,316	445,311,821	WYOMING
165	515,591	15,707,930	3,645	13,749,825	439,233,436	APPALACHIAN *
3	26,605	49,022,867	3	26,605	49,022,867	OFFSHORE FED. - ALASKA
--	--	--	--	--	--	OFFSHORE FED. - ATLANTIC
70	861,091	552,048,104	117	1,383,254	915,134,913	OFFSHORE FED. - GULF NORTH
5	35,316	29,438,964	12	82,752	54,453,426	OFFSHORE FED. - PACIFIC
78	923,012	630,509,935	132	1,492,611	1,018,611,206	OFFSHORE FED - TOTAL
120	404,228	38,046,645	367	1,302,943	84,179,487	OTHER UNITED STATES **
358	3,968,696	1,614,079,157	898	9,407,734	3,596,314,594	TOTAL OFFSHORE ***
11,266	55,149,594	2,910,348,219	36,275	168,881,855	9,956,088,251	TOTAL ONSHORE
11,624	59,118,290	4,524,427,376	37,173	176,289,589	13,552,402,845	TOTAL U.S.
5,293	30,266,985	2,727,120,298	7,129	42,294,352	3,381,133,444	EXPLORATORY WELLS
6,331	28,851,305	1,797,307,078	30,044	133,995,237	9,571,269,401	DEVELOPMENT WELLS

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

TOTAL UNITED STATES *

Table 2

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	3,157	435	1,406	4,998				
FOOTAGE 0 - 1,249	2,625,820	364,125	1,054,662	4,044,607	832	837	750	809
COSTS $	103,647,668	14,248,410	22,466,848	140,362,926	32,831	32,755	15,979	28,084
WELLS	3,828	1,007	1,820	6,655				
FOOTAGE 1,250 - 2,499	6,579,135	1,873,451	3,322,872	11,775,458	1,719	1,860	1,826	1,769
COSTS $	272,281,608	76,001,862	81,438,895	429,722,365	71,129	75,474	44,747	64,571
WELLS	2,921	1,277	1,693	5,891				
FOOTAGE 2,500 - 3,749	9,241,381	4,120,945	5,341,348	18,703,674	3,164	3,227	3,155	3,175
COSTS $	399,869,955	166,332,035	131,617,500	697,819,490	136,895	130,252	77,742	118,455
WELLS	2,630	1,106	1,936	5,672				
FOOTAGE 3,750 - 4,999	11,475,043	4,767,844	8,450,983	24,693,870	4,363	4,311	4,365	4,354
COSTS $	423,106,745	176,607,420	214,719,677	814,433,842	160,877	159,681	110,909	143,588
WELLS	2,570	1,708	2,240	6,518				
FOOTAGE 5,000 - 7,499	15,867,080	10,552,811	13,597,028	40,016,919	6,174	6,178	6,070	6,139
COSTS $	843,118,921	500,777,764	511,342,289	1,855,238,974	328,062	293,195	228,278	284,633
WELLS	2,066	846	1,217	4,129				
FOOTAGE 7,500 - 9,999	17,910,784	7,354,483	10,487,690	35,752,957	8,669	8,693	8,618	8,659
COSTS $	1,332,102,687	571,157,256	712,826,322	2,616,086,265	644,774	675,127	585,724	633,588
WELLS	737	563	709	2,009				
FOOTAGE 10,000 - 12,499	8,124,933	6,225,959	7,845,785	22,196,677	11,024	11,059	11,066	11,049
COSTS $	1,046,145,452	747,829,330	740,983,121	2,534,957,903	1,419,465	1,328,294	1,045,110	1,261,801
WELLS	236	248	369	853				
FOOTAGE 12,500 - 14,999	3,164,310	3,361,816	4,984,878	11,511,004	13,408	13,556	13,509	13,495
COSTS $	524,960,286	697,204,305	817,932,899	2,040,097,490	2,224,408	2,811,308	2,216,620	2,391,674
WELLS	46	116	151	313				
FOOTAGE 15,000 - 17,499	726,273	1,861,993	2,415,144	5,003,410	15,789	16,052	15,994	15,985
COSTS $	188,209,413	575,616,057	654,723,015	1,418,548,485	4,091,509	4,962,208	4,335,914	4,532,104
WELLS	5	41	57	103				
FOOTAGE 17,500 - 19,999	91,052	748,154	1,052,955	1,892,161	18,210	18,248	18,473	18,370
COSTS $	30,764,344	258,938,282	298,724,735	588,427,361	6,152,869	6,315,568	5,240,785	5,712,887
WELLS	2	4	26	32				
FOOTAGE 20,000 & OVER	41,530	92,377	564,945	698,852	20,765	23,094	21,729	21,839
COSTS $	19,885,797	59,169,872	337,652,075	416,707,744	9,942,899	14,792,468	12,986,618	13,022,117
TOTAL WELLS	18,198	7,351	11,624	37,173				
TOTAL FOOTAGE	75,847,341	41,323,958	59,118,290	176,289,589	4,168	5,622	5,086	4,742
TOTAL COSTS $	5,184,092,876	3,843,882,593	4,524,427,376	13,552,402,845	284,872	522,906	389,232	364,577

* Includes the following states and areas which are not shown separately: Arizona, Georgia, Idaho, Iowa, Maryland, Missouri, Nevada, Oregon, South Dakota, Tennessee, Virginia, Offshore Federal Waters-Alaska, and Offshore Federal Waters-Pacific Coast.

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

TOTAL OFFSHORE *

Table 3

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	--	--	1	1				
FOOTAGE 0 - 1,249	--	--	535	535	--	--	535	535
COSTS $	--	--	85,956	85,956	--	--	85,956	85,956
WELLS	--	--	3	3				
FOOTAGE 1,250 - 2,499	--	--	6,396	6,396	--	--	2,132	2,132
COSTS $	--	--	5,215,768	5,215,768	--	--	1,738,589	1,738,589
WELLS	5	5	4	14				
FOOTAGE 2,500 - 3,749	16,091	15,525	13,956	45,572	3,218	3,105	3,489	3,255
COSTS $	3,516,825	2,985,923	3,162,755	9,665,503	703,365	597,185	790,689	690,393
WELLS	9	3	6	18				
FOOTAGE 3,750 - 4,999	41,000	14,071	27,224	82,295	4,556	4,690	4,537	4,572
COSTS $	7,251,193	3,580,159	9,625,705	20,457,057	805,688	1,193,386	1,604,284	1,136,503
WELLS	80	28	52	160				
FOOTAGE 5,000 - 7,499	504,820	175,779	333,787	1,014,386	6,310	6,278	6,419	6,340
COSTS $	107,813,561	50,183,710	76,163,825	234,161,096	1,347,670	1,792,275	1,464,689	1,463,507
WELLS	107	40	88	235				
FOOTAGE 7,500 - 9,999	940,816	355,418	770,653	2,066,887	8,793	8,885	8,757	8,795
COSTS $	261,888,773	92,009,364	294,734,015	648,632,152	2,447,559	2,300,234	3,349,250	2,760,137
WELLS	82	58	70	210				
FOOTAGE 10,000 - 12,499	918,197	649,197	773,652	2,341,046	11,198	11,193	11,052	11,148
COSTS $	358,008,629	178,527,318	245,249,325	781,785,272	4,365,959	3,078,057	3,503,562	3,722,787
WELLS	34	43	77	154				
FOOTAGE 12,500 - 14,999	463,211	588,046	1,056,920	2,108,177	13,624	13,675	13,726	13,689
COSTS $	180,108,712	306,014,398	431,926,965	918,050,075	5,297,315	7,116,614	5,609,441	5,961,364
WELLS	15	23	38	76				
FOOTAGE 15,000 - 17,499	236,582	370,312	602,837	1,209,731	15,772	16,101	15,864	15,918
COSTS $	108,516,837	206,441,655	320,487,938	635,446,430	7,234,456	8,975,724	8,433,893	8,361,137
WELLS	1	6	9	16				
FOOTAGE 17,500 - 19,999	18,212	109,911	167,551	295,674	18,212	18,319	18,617	18,480
COSTS $	13,885,533	84,546,589	87,544,256	185,976,378	13,885,533	14,091,098	9,727,140	11,623,524
WELLS	--	1	10	11				
FOOTAGE 20,000 & OVER	--	21,850	215,185	237,035	--	21,850	21,519	21,549
COSTS $	--	16,956,258	139,882,649	156,838,907	--	16,956,259	13,988,265	14,258,082
TOTAL WELLS	333	207	358	898				
TOTAL FOOTAGE	3,138,929	2,300,109	3,968,696	9,407,734	9,426	11,112	11,086	10,476
TOTAL COSTS $	1,040,990,063	941,245,374	1,614,079,157	3,596,314,594	3,126,096	4,547,079	4,508,601	4,004,805

* Includes Alabama Offshore, Offshore Federal Waters-Alaska, and Offshore Federal Waters-Pacific Coast, which are not shown separately.

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

TOTAL ONSHORE *

Table 4

DEPTH INTERVAL (FEET)		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
WELLS		3,157	435	1,405	4,997				
FOOTAGE	0 - 1,249	2,625,820	364,125	1,054,127	4,044,072	832	837	750	809
COSTS $		103,647,668	14,248,410	22,380,892	140,276,970	32,831	32,755	15,929	28,072
WELLS		3,828	1,007	1,817	6,652				
FOOTAGE	1,250 - 2,499	6,579,135	1,873,451	3,316,476	11,769,062	1,719	1,860	1,825	1,769
COSTS $		272,281,608	76,001,862	76,223,127	424,506,597	71,129	75,474	41,950	63,816
WELLS		2,916	1,272	1,689	5,877				
FOOTAGE	2,500 - 3,749	9,225,290	4,105,420	5,327,392	18,658,102	3,164	3,228	3,154	3,175
COSTS $		396,353,130	163,346,112	128,454,745	688,153,987	135,924	128,417	76,054	117,093
WELLS		2,621	1,103	1,930	5,654				
FOOTAGE	3,750 - 4,999	11,434,043	4,753,773	8,423,759	24,611,575	4,362	4,310	4,365	4,353
COSTS $		415,855,552	173,027,261	205,093,972	793,976,785	158,663	156,870	106,266	140,427
WELLS		2,490	1,680	2,188	6,358				
FOOTAGE	5,000 - 7,499	15,362,260	10,377,032	13,263,241	39,002,533	6,170	6,177	6,062	6,134
COSTS $		735,305,360	450,594,054	435,178,464	1,621,077,878	295,303	268,211	198,893	254,967
WELLS		1,959	806	1,129	3,894				
FOOTAGE	7,500 - 9,999	16,969,968	6,999,065	9,717,037	33,686,070	8,663	8,684	8,607	8,651
COSTS $		1,070,213,914	479,147,892	418,092,307	1,967,454,113	546,306	594,476	370,321	505,253
WELLS		655	505	639	1,799				
FOOTAGE	10,000 - 12,499	7,206,736	5,576,762	7,072,133	19,855,631	11,003	11,043	11,068	11,037
COSTS $		688,136,823	569,302,012	495,733,796	1,753,172,631	1,050,591	1,127,331	775,796	974,526
WELLS		202	205	292	699				
FOOTAGE	12,500 - 14,999	2,701,099	2,773,770	3,927,958	9,402,827	13,372	13,531	13,452	13,452
COSTS $		344,851,574	391,189,907	386,005,934	1,122,047,415	1,707,186	1,908,244	1,321,938	1,605,218
WELLS		31	93	113	237				
FOOTAGE	15,000 - 17,499	489,691	1,491,681	1,812,307	3,793,679	15,796	16,040	16,038	16,007
COSTS $		79,692,576	369,174,402	334,235,077	783,102,055	2,570,728	3,969,617	2,957,833	3,304,228
WELLS		4	35	48	87				
FOOTAGE	17,500 - 19,999	72,840	638,243	885,404	1,596,487	18,210	18,236	18,446	18,350
COSTS $		16,878,811	174,391,693	211,180,479	402,450,983	4,219,703	4,982,620	4,399,594	4,625,874
WELLS		2	3	16	21				
FOOTAGE	20,000 & OVER	41,530	70,527	349,760	461,817	20,765	23,509	21,860	21,991
COSTS $		19,885,797	42,213,614	197,769,426	259,868,837	9,942,899	14,071,205	12,360,589	12,374,707
TOTAL WELLS		17,865	7,144	11,266	36,275				
TOTAL FOOTAGE		72,708,412	39,023,849	55,149,594	166,881,855	4,070	5,462	4,895	4,600
TOTAL COSTS $		4,143,102,813	2,902,637,219	2,910,348,219	9,956,088,251	231,912	406,304	258,330	274,461

* Includes the following states and areas which are not shown separately: Arizona, Georgia, Idaho, Iowa, Maryland, Missouri, Nevada, Oregon, South Dakota, Tennessee, and Virginia. Note: Includes Alaska-Onshore.

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

ALABAMA *

Table 5

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		--	--	5	5				
FOOTAGE	0 - 1,249	--	--	5,398	5,398	--	--	1,080	1,080
COSTS $		--	--	193,501	193,501	--	--	38,700	38,700
WELLS		5	27	39	71				
FOOTAGE	1,250 - 2,499	11,886	49,905	73,132	134,923	2,377	1,848	1,875	1,900
COSTS $		552,915	2,713,376	2,463,795	5,730,086	110,583	100,495	63,174	80,705
WELLS		7	17	23	47				
FOOTAGE	2,500 - 3,749	19,573	51,868	66,896	138,337	2,796	3,051	2,909	2,943
COSTS $		1,028,989	6,158,870	2,105,667	9,293,526	146,998	362,286	91,551	197,735
WELLS		4	6	14	24				
FOOTAGE	3,750 - 4,999	18,725	26,357	63,065	108,147	4,681	4,393	4,505	4,506
COSTS $		1,002,207	1,672,930	2,201,696	4,876,833	250,552	278,822	157,264	203,201
WELLS		4	3	10	17				
FOOTAGE	5,000 - 7,499	22,146	16,430	57,621	96,197	5,537	5,477	5,762	5,659
COSTS $		1,007,870	1,156,951	2,478,846	4,643,667	251,968	385,650	247,885	273,157
WELLS		--	--	2	2				
FOOTAGE	7,500 - 9,999	--	--	16,000	16,000	--	--	8,000	8,000
COSTS $		--	--	509,851	509,851	--	--	254,926	254,926
WELLS		1	--	8	9				
FOOTAGE	10,000 - 12,499	11,400	--	92,612	104,012	11,400	--	11,577	11,557
COSTS $		670,076	--	6,331,042	7,001,118	670,076	--	791,380	777,902
WELLS		6	1	14	21				
FOOTAGE	12,500 - 14,999	81,653	12,590	190,429	284,672	13,609	12,590	13,602	13,556
COSTS $		7,357,969	954,894	8,943,023	17,255,886	1,226,328	954,894	638,787	821,709
WELLS		2	5	6	13				
FOOTAGE	15,000 - 17,499	30,762	78,860	95,660	205,282	15,381	15,772	15,943	15,791
COSTS $		3,296,379	9,078,980	8,140,836	20,516,195	1,648,190	1,815,796	1,356,806	1,578,169
WELLS		--	2	--	2				
FOOTAGE	17,500 - 19,999	--	36,984	--	36,984	--	18,492	--	18,492
COSTS $		--	3,846,704	--	3,846,704	--	1,923,352	--	1,923,352
WELLS		--	--	3	3				
FOOTAGE	20,000 & OVER	--	--	66,104	66,104	--	--	22,035	22,035
COSTS $		--	--	56,843,307	56,843,307	--	--	18,947,771	18,947,771
TOTAL WELLS		29	61	124	214				
TOTAL FOOTAGE		196,145	272,994	726,917	1,196,056	6,764	4,475	5,862	5,589
TOTAL COSTS $		14,916,405	25,582,705	90,211,564	130,710,674	514,359	419,389	727,513	610,798

* Includes four wells for Alabama Offshore.

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

ALASKA - TOTAL

Table 6

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	0 - 1,249	--	--	--	--				
FOOTAGE		--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS	1,250 - 2,499	--	--	--	--				
FOOTAGE		--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS	2,500 - 3,749	--	--	1	1				
FOOTAGE		--	--	3,233	3,233	--	--	3,233	3,233
COSTS $		--	--	1,616,500	1,616,500	--	--	1,616,500	1,616,500
WELLS	3,750 - 4,999	--	--	1	1				
FOOTAGE		--	--	4,015	4,015	--	--	4,015	4,015
COSTS $		--	--	2,101,105	2,101,105	--	--	2,101,105	2,101,105
WELLS	5,000 - 7,499	27	1	6	34				
FOOTAGE		186,962	7,017	39,731	233,710	6,925	7,017	6,622	6,874
COSTS $		40,327,579	3,700,629	13,985,188	58,013,396	1,493,614	3,700,629	2,330,865	1,706,276
WELLS	7,500 - 9,999	106	2	3	111				
FOOTAGE		916,669	15,631	25,277	957,577	8,648	7,816	8,426	8,627
COSTS $		172,380,708	5,977,179	3,629,606	181,987,493	1,626,233	2,988,590	1,209,869	1,639,527
WELLS	10,000 - 12,499	77	--	4	81				
FOOTAGE		854,745	--	44,838	899,583	11,101	--	11,210	11,106
COSTS $		223,640,509	--	25,287,774	248,928,283	2,904,422	--	6,321,944	3,073,189
WELLS	12,500 - 14,999	26	--	1	27				
FOOTAGE		343,880	--	13,107	356,987	13,226	--	13,107	13,222
COSTS $		97,174,798	--	8,017,320	105,192,118	3,737,492	--	8,017,320	3,896,004
WELLS	15,000 - 17,499	--	--	2	2				
FOOTAGE		--	--	31,283	31,283	--	--	15,642	15,642
COSTS $		--	--	55,373,322	55,373,322	--	--	27,686,662	27,686,662
WELLS	17,500 - 19,999	--	--	--	--				
FOOTAGE		--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS	20,000 & OVER	--	--	--	--				
FOOTAGE		--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		236	3	18	257				
TOTAL FOOTAGE		2,302,256	22,648	161,484	2,486,388	9,755	7,549	8,971	9,675
TOTAL COSTS $		533,523,594	9,677,808	110,010,815	653,212,217	2,260,693	3,225,936	6,111,712	2,541,682

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

ALASKA - ONSHORE

Table 7

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		--	--	--	--				
FOOTAGE	0 - 1,249	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	1,250 - 2,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	2,500 - 3,749	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	1	1				
FOOTAGE	3,750 - 4,999	--	--	4,015	4,015	--	--	4,015	4,015
COSTS $		--	--	2,101,105	2,101,105	--	--	2,101,105	2,101,105
WELLS		25	1	6	32				
FOOTAGE	5,000 - 7,499	172,506	7,017	39,731	219,254	6,900	7,017	6,622	6,852
COSTS $		35,635,810	3,700,629	13,985,188	53,321,627	1,425,432	3,700,629	2,330,865	1,666,301
WELLS		105	1	3	109				
FOOTAGE	7,500 - 9,999	906,739	7,910	25,277	939,926	8,636	7,910	8,426	8,623
COSTS $		168,604,402	4,186,288	3,629,606	176,420,296	1,605,756	4,186,288	1,209,869	1,618,535
WELLS		72	--	4	76				
FOOTAGE	10,000 - 12,499	797,850	--	44,838	842,688	11,081	--	11,210	11,088
COSTS $		205,786,786	--	25,287,774	231,074,560	2,858,150	--	6,321,944	3,040,455
WELLS		24	--	1	25				
FOOTAGE	12,500 - 14,999	316,485	--	13,107	329,592	13,187	--	13,107	13,184
COSTS $		87,038,865	--	8,017,320	95,056,185	3,626,620	--	8,017,320	3,802,248
WELLS		--	--	1	1				
FOOTAGE	15,000 - 17,499	--	--	15,193	15,193	--	--	15,193	15,193
COSTS $		--	--	36,757,632	36,757,632	--	--	36,757,632	36,757,632
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		226	2	16	244				
TOTAL FOOTAGE		2,193,580	14,927	142,161	2,350,668	9,706	7,464	8,885	9,634
TOTAL COSTS $		497,065,863	7,886,917	89,778,625	594,731,405	2,199,407	3,943,459	5,611,164	2,437,424

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

ALASKA - OFFSHORE

Table 8

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	0 - 1,249	--	--	--	--				
FOOTAGE		--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS	1,250 - 2,499	--	--	--	--				
FOOTAGE		--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS	2,500 - 3,749	--	--	1	1				
FOOTAGE		--	--	3,233	3,233	--	--	3,233	3,233
COSTS $		--	--	1,616,500	1,616,500	--	--	1,616,500	1,616,500
WELLS	3,750 - 4,999	--	--	--	--				
FOOTAGE		--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS	5,000 - 7,499	2	--	--	2				
FOOTAGE		14,456	--	--	14,456	7,228	--	--	7,228
COSTS $		4,691,769	--	--	4,691,769	2,345,885	--	--	2,345,885
WELLS	7,500 - 9,999	1	1	--	2				
FOOTAGE		9,930	7,721	--	17,651	9,930	7,721	--	8,826
COSTS $		3,776,306	1,790,891	--	5,567,197	3,776,306	1,790,891	--	2,783,599
WELLS	10,000 - 12,499	5	--	--	5				
FOOTAGE		56,895	--	--	56,895	11,379	--	--	11,379
COSTS $		17,853,723	--	--	17,853,723	3,570,745	--	--	3,570,745
WELLS	12,500 - 14,999	2	--	--	2				
FOOTAGE		27,395	--	--	27,395	13,698	--	--	13,698
COSTS $		10,135,933	--	--	10,135,933	5,067,967	--	--	5,067,967
WELLS	15,000 - 17,499	--	--	1	1				
FOOTAGE		--	--	16,090	16,090	--	--	16,090	16,090
COSTS $		--	--	18,615,690	18,615,690	--	--	18,615,690	18,615,690
WELLS	17,500 - 19,999	--	--	--	--				
FOOTAGE		--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS	20,000 & OVER	--	--	--	--				
FOOTAGE		--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		10	1	2	13				
TOTAL FOOTAGE		108,676	7,721	19,323	135,720	10,868	7,721	9,662	10,440
TOTAL COSTS $		36,457,731	1,790,891	20,232,190	58,480,812	3,645,773	1,790,891	10,116,095	4,498,524

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

ARKANSAS

Table 9

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		2	28	38	68				
FOOTAGE	0 - 1,249	2,454	15,440	21,933	39,827	1,227	551	577	586
COSTS $		69,000	692,525	462,157	1,223,682	34,500	24,733	12,162	17,995
WELLS		79	8	19	106				
FOOTAGE	1,250 - 2,499	121,328	16,293	34,630	172,251	1,536	2,037	1,823	1,625
COSTS $		3,429,315	777,289	723,246	4,929,850	43,409	97,161	38,066	46,508
WELLS		22	16	40	78				
FOOTAGE	2,500 - 3,749	65,817	47,895	126,089	239,801	2,992	2,993	3,152	3,074
COSTS $		1,969,028	2,692,750	2,723,879	7,385,657	89,501	168,297	68,097	94,688
WELLS		11	19	16	46				
FOOTAGE	3,750 - 4,999	49,362	85,069	69,231	203,662	4,487	4,477	4,327	4,427
COSTS $		1,501,884	5,026,271	1,522,441	8,050,596	136,535	264,541	95,153	175,013
WELLS		25	65	35	125				
FOOTAGE	5,000 - 7,499	148,827	397,370	225,165	771,362	5,953	6,113	6,433	6,171
COSTS $		5,444,701	27,872,682	7,089,627	40,407,010	217,788	428,811	202,561	323,256
WELLS		12	16	22	50				
FOOTAGE	7,500 - 9,999	99,004	135,877	185,232	420,113	8,250	8,492	8,420	8,402
COSTS $		4,410,512	9,624,820	5,838,751	19,874,083	367,543	601,551	265,398	397,482
WELLS		--	2	6	8				
FOOTAGE	10,000 - 12,499	--	21,222	68,495	89,717	--	10,611	11,416	11,215
COSTS $		--	1,754,452	3,255,568	5,010,020	--	877,226	542,595	626,253
WELLS		--	--	--	--				
FOOTAGE	12,500 - 14,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	15,000 - 17,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		151	154	176	481				
TOTAL FOOTAGE		486,792	719,166	730,775	1,936,733	3,224	4,670	4,152	4,026
TOTAL COSTS $		16,824,440	48,440,789	21,615,669	86,880,898	111,420	314,551	122,816	180,626

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

CALIFORNIA - TOTAL

Table 10

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		830	--	3	833				
FOOTAGE	0 - 1,249	773,388	--	2,547	775,935	932	--	849	931
COSTS $		47,489,377	--	126,607	47,615,984	57,216	--	42,202	57,162
WELLS		881	3	6	890				
FOOTAGE	1,250 - 2,499	1,395,580	5,825	11,017	1,412,422	1,584	1,942	1,836	1,587
COSTS $		89,151,122	401,082	443,519	89,995,723	101,193	133,694	73,920	101,119
WELLS		402	6	23	431				
FOOTAGE	2,500 - 3,749	1,188,144	18,910	73,877	1,280,931	2,956	3,152	3,212	2,972
COSTS $		93,631,881	1,445,893	3,473,009	98,550,783	232,915	240,982	151,000	228,656
WELLS		50	11	13	74				
FOOTAGE	3,750 - 4,999	215,204	47,840	57,560	320,604	4,304	4,349	4,428	4,332
COSTS $		22,254,629	2,658,061	3,163,903	28,076,593	445,093	241,642	243,377	379,413
WELLS		61	30	45	136				
FOOTAGE	5,000 - 7,499	389,494	195,080	275,093	859,667	6,385	6,503	6,113	6,321
COSTS $		46,818,256	22,432,456	14,330,763	83,581,475	767,512	747,749	318,461	614,570
WELLS		25	35	26	86				
FOOTAGE	7,500 - 9,999	207,231	296,105	212,342	715,678	8,289	8,460	8,167	8,322
COSTS $		25,976,605	22,332,827	13,731,009	62,040,441	1,039,064	638,081	528,116	721,401
WELLS		10	4	16	30				
FOOTAGE	10,000 - 12,499	113,912	44,061	175,179	333,152	11,391	11,015	10,949	11,105
COSTS $		25,419,273	3,624,328	18,936,160	47,979,761	2,541,927	906,082	1,183,510	1,599,325
WELLS		14	--	11	25				
FOOTAGE	12,500 - 14,999	184,051	--	145,050	329,101	13,147	--	13,186	13,164
COSTS $		45,160,357	--	18,616,820	63,777,177	3,225,740	--	1,692,438	2,551,087
WELLS		--	--	3	3				
FOOTAGE	15,000 - 17,499	--	--	47,555	47,555	--	--	15,852	15,852
COSTS $		--	--	8,266,090	8,266,090	--	--	2,755,363	2,755,363
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		1	--	--	1				
FOOTAGE	20,000 & OVER	20,277	--	--	20,277	20,277	--	--	20,277
COSTS $		5,970,623	--	--	5,970,623	5,970,623	--	--	5,970,623
TOTAL WELLS		2,274	89	146	2,509				
TOTAL FOOTAGE		4,487,281	607,821	1,000,220	6,095,322	1,973	6,829	6,851	2,429
TOTAL COSTS $		401,872,123	52,894,647	81,087,880	535,854,650	176,725	594,322	555,396	213,573

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

CALIFORNIA - NORTH

Table 11

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	0 - 1,249	--	--	--	--				
FOOTAGE		--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS	1,250 - 2,499	--	3	1	4				
FOOTAGE		--	5,825	2,356	8,181	--	1,942	2,356	2,045
COSTS $		--	401,082	100,157	501,239	--	133,694	100,157	125,310
WELLS	2,500 - 3,749	--	6	11	17				
FOOTAGE		--	18,910	34,966	53,876	--	3,152	3,179	3,169
COSTS $		--	1,445,893	1,477,106	2,922,999	--	240,982	134,282	171,941
WELLS	3,750 - 4,999	2	8	7	17				
FOOTAGE		7,978	35,205	31,830	75,013	3,989	4,401	4,547	4,413
COSTS $		500,000	2,004,517	1,637,030	4,141,547	250,000	250,565	233,861	243,620
WELLS	5,000 - 7,499	--	25	33	58				
FOOTAGE		--	164,685	203,389	368,074	--	6,587	6,163	6,346
COSTS $		--	12,706,307	9,944,478	22,650,785	--	508,252	301,348	390,531
WELLS	7,500 - 9,999	1	35	18	54				
FOOTAGE		8,955	296,105	142,437	447,497	8,955	8,460	7,913	8,287
COSTS $		544,027	22,332,827	6,363,700	29,240,554	544,027	638,081	353,539	541,492
WELLS	10,000 - 12,499	--	2	1	3				
FOOTAGE		--	20,150	10,895	31,045	--	10,075	10,895	10,348
COSTS $		--	1,373,966	1,130,192	2,504,158	--	686,983	1,130,192	834,719
WELLS	12,500 - 14,999	--	--	--	--				
FOOTAGE		--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS	15,000 - 17,499	--	--	1	1				
FOOTAGE		--	--	16,000	16,000	--	--	16,000	16,000
COSTS $		--	--	4,024,640	4,024,640	--	--	4,024,640	4,024,640
WELLS	17,500 - 19,999	--	--	--	--				
FOOTAGE		--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS	20,000 & OVER	--	--	--	--				
FOOTAGE		--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		3	79	72	154				
TOTAL FOOTAGE		16,933	540,880	441,873	999,686	5,644	6,847	6,137	6,491
TOTAL COSTS $		1,044,027	40,264,592	24,677,303	65,985,922	348,009	509,678	342,740	428,480

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

CALIFORNIA -CENTRAL COASTAL

Table 12

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
0 - 1,249	WELLS	2	--	--	2				
	FOOTAGE	2,231	--	--	2,231	1,116	--	--	1,116
	COSTS $	297,950	--	--	297,950	148,975	--	--	148,975
1,250 - 2,499	WELLS	52	--	--	52				
	FOOTAGE	95,771	--	--	95,771	1,842	--	--	1,842
	COSTS $	9,806,072	--	--	9,806,072	188,578	--	--	188,578
2,500 - 3,749	WELLS	15	--	1	16				
	FOOTAGE	42,488	--	3,643	46,131	2,833	--	3,643	2,883
	COSTS $	3,219,689	--	276,067	3,495,756	214,646	--	276,067	218,485
3,750 - 4,999	WELLS	3	--	--	3				
	FOOTAGE	12,872	--	--	12,872	4,291	--	--	4,291
	COSTS $	1,402,595	--	--	1,402,595	467,532	--	--	467,532
5,000 - 7,499	WELLS	19	--	2	21				
	FOOTAGE	126,034	--	13,177	139,211	6,633	--	6,589	6,629
	COSTS $	10,994,132	--	1,084,717	12,078,849	578,639	--	542,359	575,183
7,500 - 9,999	WELLS	10	--	4	14				
	FOOTAGE	83,372	--	36,383	119,755	8,337	--	9,096	8,554
	COSTS $	9,625,950	--	5,739,515	15,365,465	962,595	--	1,434,879	1,097,533
10,000 - 12,499	WELLS	1	--	5	6				
	FOOTAGE	12,418	--	54,523	66,941	12,418	--	10,905	11,157
	COSTS $	6,821,357	--	10,260,808	17,082,165	6,821,357	--	2,052,162	2,847,028
12,500 - 14,999	WELLS	2	--	1	3				
	FOOTAGE	27,631	--	12,970	40,601	13,816	--	12,970	13,534
	COSTS $	2,199,028	--	3,004,012	5,203,040	1,099,514	--	3,004,012	1,734,347
15,000 - 17,499	WELLS	--	--	--	--				
	FOOTAGE	--	--	--	--	--	--	--	--
	COSTS $	--	--	--	--	--	--	--	--
17,500 - 19,999	WELLS	--	--	--	--				
	FOOTAGE	--	--	--	--	--	--	--	--
	COSTS $	--	--	--	--	--	--	--	--
20,000 & OVER	WELLS	1	--	--	1				
	FOOTAGE	20,277	--	--	20,277	20,277	--	--	20,277
	COSTS $	5,970,623	--	--	5,970,623	5,970,623	--	--	5,970,623
TOTAL WELLS		105	--	13	118				
TOTAL FOOTAGE		423,094	--	120,696	543,790	4,029	--	9,284	4,608
TOTAL COSTS $		50,337,396	--	20,365,119	70,702,515	479,404	--	1,566,548	599,174

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

CALIFORNIA - EAST CENTRAL

Table 13

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		826	--	3	829				
FOOTAGE	0 - 1,249	769,347	--	2,547	771,894	931	--	849	931
COSTS $		46,908,505	--	126,607	47,035,112	56,790	--	42,202	56,737
WELLS		804	--	2	806				
FOOTAGE	1,250 - 2,499	1,251,472	--	3,008	1,254,480	1,557	--	1,504	1,556
COSTS $		72,858,980	--	78,934	72,937,914	90,621	--	39,467	90,494
WELLS		358	--	10	368				
FOOTAGE	2,500 - 3,749	1,053,148	--	32,579	1,085,727	2,942	--	3,258	2,950
COSTS $		80,930,168	--	1,582,995	82,513,163	226,062	--	158,300	224,221
WELLS		23	3	6	32				
FOOTAGE	3,750 - 4,999	97,321	12,635	25,730	135,686	4,231	4,212	4,288	4,240
COSTS $		9,618,264	653,544	1,526,873	11,798,681	418,185	217,848	254,479	368,709
WELLS		12	3	8	23				
FOOTAGE	5,000 - 7,499	72,935	17,441	46,732	137,108	6,078	5,814	5,842	5,961
COSTS $		7,530,874	383,967	2,266,568	10,181,409	627,573	127,989	283,321	442,670
WELLS		9	--	4	13				
FOOTAGE	7,500 - 9,999	73,202	--	33,522	106,724	8,134	--	8,381	8,210
COSTS $		9,736,381	--	1,627,794	11,364,175	1,081,820	--	406,949	874,167
WELLS		6	1	9	16				
FOOTAGE	10,000 - 12,499	69,064	12,425	99,661	181,150	11,511	12,425	11,073	11,322
COSTS $		9,383,188	729,720	6,472,527	16,585,435	1,563,865	729,720	719,170	1,036,590
WELLS		9	--	10	19				
FOOTAGE	12,500 - 14,999	115,176	--	132,080	247,256	12,797	--	13,208	13,013
COSTS $		14,156,000	--	15,612,808	29,768,808	1,572,889	--	1,561,281	1,566,779
WELLS		--	--	2	2				
FOOTAGE	15,000 - 17,499	--	--	31,555	31,555	--	--	15,778	15,778
COSTS $		--	--	4,241,450	4,241,450	--	--	2,120,725	2,120,725
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		2,047	7	54	2,108				
TOTAL FOOTAGE		3,501,665	42,501	407,414	3,951,580	1,711	6,072	7,545	1,875
TOTAL COSTS $		251,122,360	1,767,231	33,536,556	286,426,147	122,678	252,462	621,047	135,876

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

CALIFORNIA - SOUTH

Table 14

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		2	--	--	2				
FOOTAGE	0 - 1,249	1,810	--	--	1,810	905	--	--	905
COSTS $		282,922	--	--	282,922	141,461	--	--	141,461
WELLS		25	--	3	28				
FOOTAGE	1,250 - 2,499	48,337	--	5,653	53,990	1,933	--	1,884	1,928
COSTS $		6,486,070	--	264,428	6,750,498	259,443	--	88,143	241,089
WELLS		26	--	1	27				
FOOTAGE	2,500 - 3,749	82,722	--	2,689	85,411	3,182	--	2,689	3,163
COSTS $		8,256,670	--	136,841	8,393,511	317,564	--	136,841	310,871
WELLS		15	--	--	15				
FOOTAGE	3,750 - 4,999	65,275	--	--	65,275	4,352	--	--	4,352
COSTS $		6,434,557	--	--	6,434,557	428,970	--	--	428,970
WELLS		4	--	2	6				
FOOTAGE	5,000 - 7,499	23,778	--	11,795	35,573	5,945	--	5,898	5,929
COSTS $		3,475,986	--	1,035,000	4,510,986	868,997	--	517,500	751,831
WELLS		--	--	--	--				
FOOTAGE	7,500 - 9,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	1	1	2				
FOOTAGE	10,000 - 12,499	--	11,486	10,100	21,586	--	11,486	10,100	10,793
COSTS $		--	1,520,642	1,072,633	2,593,275	--	1,520,642	1,072,633	1,296,638
WELLS		--	--	--	--				
FOOTAGE	12,500 - 14,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	15,000 - 17,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		72	1	7	80				
TOTAL FOOTAGE		221,922	11,486	30,237	263,645	3,082	11,486	4,320	3,296
TOTAL COSTS $		24,936,205	1,520,642	2,508,902	28,965,749	346,336	1,520,642	358,415	362,072

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

CALIFORNIA - OFFSHORE

Table 15

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		--	--	--	--				
FOOTAGE	0 - 1,249	--	--	--	--				
COSTS $		--	--	--	--	--	--	--	--
						--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	1,250 - 2,499	--	--	--	--				
COSTS $		--	--	--	--	--	--	--	--
						--	--	--	--
WELLS		3	--	--	3				
FOOTAGE	2,500 - 3,749	9,786	--	--	9,786	3,262	--	--	3,262
COSTS $		1,225,354	--	--	1,225,354	408,451	--	--	408,451
WELLS		7	--	--	7				
FOOTAGE	3,750 - 4,999	31,758	--	--	31,758	4,537	--	--	4,537
COSTS $		4,299,213	--	--	4,299,213	614,173	--	--	614,173
WELLS		26	2	--	28				
FOOTAGE	5,000 - 7,499	166,747	12,954	--	179,701	6,413	6,477	--	6,418
COSTS $		24,817,264	9,342,182	--	34,159,446	954,510	4,671,091	--	1,219,980
WELLS		5	--	--	5				
FOOTAGE	7,500 - 9,999	41,702	--	--	41,702	8,340	--	--	8,340
COSTS $		6,070,247	--	--	6,070,247	1,214,049	--	--	1,214,049
WELLS		3	--	--	3				
FOOTAGE	10,000 - 12,499	32,430	--	--	32,430	10,810	--	--	10,810
COSTS $		9,214,728	--	--	9,214,728	3,071,576	--	--	3,071,576
WELLS		3	--	--	3				
FOOTAGE	12,500 - 14,999	41,244	--	--	41,244	13,748	--	--	13,748
COSTS $		28,805,329	--	--	28,805,329	9,601,776	--	--	9,601,776
WELLS		--	--	--	--				
FOOTAGE	15,000 - 17,499	--	--	--	--				
COSTS $		--	--	--	--	--	--	--	--
						--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--				
COSTS $		--	--	--	--	--	--	--	--
						--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--				
COSTS $		--	--	--	--	--	--	--	--
						--	--	--	--
TOTAL WELLS		47	2	--	49				
TOTAL FOOTAGE		323,667	12,954	--	336,621	6,887	6,477	--	6,870
TOTAL COSTS $		74,432,135	9,342,182	--	83,774,317	1,583,663	4,671,091	--	1,709,680

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

COLORADO

Table 16

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		2	1	4	7				
FOOTAGE	0 - 1,249	2,351	1,196	2,549	6,096	1,176	1,196	637	871
COSTS $		137,486	431,805	110,309	679,600	68,743	431,805	27,577	97,086
WELLS		4	17	9	30				
FOOTAGE	1,250 - 2,499	7,514	31,401	17,060	55,975	1,879	1,847	1,896	1,866
COSTS $		336,594	3,558,213	772,755	4,667,562	84,149	209,307	85,862	155,585
WELLS		7	66	32	105				
FOOTAGE	2,500 - 3,749	22,799	192,860	93,737	309,396	3,257	2,922	2,929	2,947
COSTS $		1,028,018	9,646,346	3,132,569	13,806,933	146,860	146,157	97,893	131,495
WELLS		14	4	57	75				
FOOTAGE	3,750 - 4,999	62,041	16,756	263,698	342,495	4,432	4,189	4,626	4,567
COSTS $		2,989,529	640,910	5,789,359	9,419,798	213,538	160,228	101,568	125,597
WELLS		217	245	171	633				
FOOTAGE	5,000 - 7,499	1,437,597	1,718,532	1,005,113	4,161,242	6,625	7,014	5,878	6,574
COSTS $		55,192,110	63,219,289	38,557,118	156,968,517	254,342	258,038	225,480	247,976
WELLS		59	78	41	178				
FOOTAGE	7,500 - 9,999	478,305	646,553	335,287	1,460,145	8,107	8,289	8,178	8,203
COSTS $		24,115,505	32,153,420	30,821,238	87,090,163	408,737	412,223	751,738	489,271
WELLS		1	--	2	3				
FOOTAGE	10,000 - 12,499	10,827	--	20,570	31,397	10,827	--	10,285	10,466
COSTS $		967,684	--	3,252,292	4,219,976	967,684	--	1,626,146	1,406,659
WELLS		--	--	2	2				
FOOTAGE	12,500 - 14,999	--	--	27,107	27,107	--	--	13,554	13,554
COSTS $		--	--	5,960,543	5,960,543	--	--	2,980,272	2,980,272
WELLS		--	--	1	1				
FOOTAGE	15,000 - 17,499	--	--	16,333	16,333	--	--	16,333	16,333
COSTS $		--	--	6,635,459	6,635,459	--	--	6,635,459	6,635,459
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		304	411	319	1,034				
TOTAL FOOTAGE		2,021,434	2,607,298	1,781,454	6,410,186	6,649	6,344	5,584	6,199
TOTAL COSTS $		84,766,926	109,649,983	95,031,642	289,448,551	278,839	266,788	297,905	279,931

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

Table 17

FLORIDA

DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
	OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	--	--	--	--				
FOOTAGE 0 - 1,249	--	--	--	--	--	--	--	--
COSTS $	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE 1,250 - 2,499	--	--	--	--	--	--	--	--
COSTS $	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE 2,500 - 3,749	--	--	--	--	--	--	--	--
COSTS $	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE 3,750 - 4,999	--	--	--	--	--	--	--	--
COSTS $	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE 5,000 - 7,499	--	--	--	--	--	--	--	--
COSTS $	--	--	--	--	--	--	--	--
WELLS	--	--	1	1				
FOOTAGE 7,500 - 9,999	--	--	9,235	9,235	--	--	9,235	9,235
COSTS $	--	--	946,424	946,424	--	--	946,424	946,424
WELLS	1	--	1	2				
FOOTAGE 10,000 - 12,499	11,727	--	11,600	23,327	11,727	--	11,600	11,664
COSTS $	1,120,557	--	1,318,812	2,439,369	1,120,557	--	1,318,812	1,219,685
WELLS	1	--	--	1				
FOOTAGE 12,500 - 14,999	14,475	--	--	14,475	14,475	--	--	14,475
COSTS $	2,130,149	--	--	2,130,149	2,130,149	--	--	2,130,149
WELLS	4	--	5	9				
FOOTAGE 15,000 - 17,499	63,225	--	80,639	143,864	15,806	--	16,128	15,985
COSTS $	10,572,200	--	7,390,255	17,962,455	2,643,050	--	1,478,051	1,995,828
WELLS	--	--	--	--				
FOOTAGE 17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $	--	--	--	--	--	--	--	--
WELLS	--	--	--	--				
FOOTAGE 20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $	--	--	--	--	--	--	--	--
TOTAL WELLS	6	--	7	13				
TOTAL FOOTAGE	89,427	--	101,474	190,901	14,905	--	14,496	14,685
TOTAL COSTS $	13,822,906	--	9,655,491	23,478,397	2,303,818	--	1,379,356	1,806,031

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

ILLINOIS

Table 18

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		205	21	170	396				
FOOTAGE	0 - 1,249	169,332	11,194	111,480	292,006	826	533	656	737
COSTS $		8,009,099	330,008	2,413,192	10,752,299	39,069	15,715	14,195	27,152
WELLS		125	1	90	216				
FOOTAGE	1,250 - 2,499	238,551	1,989	174,265	414,805	1,908	1,989	1,936	1,920
COSTS $		9,432,802	42,038	3,525,981	13,000,821	75,462	42,038	39,178	60,189
WELLS		295	--	174	469				
FOOTAGE	2,500 - 3,749	923,876	--	538,001	1,461,877	3,132	--	3,092	3,117
COSTS $		30,323,548	--	9,834,978	40,158,526	102,792	--	56,523	85,626
WELLS		47	1	31	79				
FOOTAGE	3,750 - 4,999	191,046	4,050	127,626	322,722	4,065	4,050	4,117	4,085
COSTS $		6,088,710	116,721	2,588,562	8,793,993	129,547	116,721	83,502	111,316
WELLS		5	--	--	5				
FOOTAGE	5,000 - 7,499	27,551	--	--	27,551	5,510	--	--	5,510
COSTS $		1,057,572	--	--	1,057,572	211,514	--	--	211,514
WELLS		1	--	--	1				
FOOTAGE	7,500 - 9,999	8,729	--	--	8,729	8,729	--	--	8,729
COSTS $		800,530	--	--	800,530	800,530	--	--	800,530
WELLS		--	--	--	--				
FOOTAGE	10,000 - 12,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	12,500 - 14,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	15,000 - 17,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		678	23	465	1,166				
TOTAL FOOTAGE		1,559,085	17,233	951,372	2,527,690	2,300	749	2,046	2,168
TOTAL COSTS $		55,712,261	488,767	18,362,713	74,563,741	82,171	21,251	39,490	63,948

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

Table 19

INDIANA

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		59	14	55	128				
FOOTAGE	0 - 1,249	46,099	10,492	42,140	98,731	781	749	766	771
COSTS $		1,939,840	336,434	953,716	3,229,990	32,879	24,031	17,340	25,234
WELLS		82	4	87	173				
FOOTAGE	1,250 - 2,499	133,330	7,196	154,324	294,850	1,626	1,799	1,774	1,704
COSTS $		4,369,550	215,263	2,621,177	7,205,990	53,287	53,816	30,128	41,653
WELLS		27	1	34	62				
FOOTAGE	2,500 - 3,749	75,451	2,856	97,047	175,354	2,794	2,856	2,854	2,828
COSTS $		1,792,466	92,789	1,677,146	3,562,401	66,388	92,789	49,328	57,458
WELLS		--	--	2	2				
FOOTAGE	3,750 - 4,999	--	--	9,313	9,313	--	--	4,657	4,657
COSTS $		--	--	594,766	594,766	--	--	297,383	297,383
WELLS		--	1	1	2				
FOOTAGE	5,000 - 7,499	--	5,705	5,045	10,750	--	5,705	5,045	5,375
COSTS $		--	336,843	272,430	609,273	--	336,843	272,430	304,637
WELLS		--	--	--	--				
FOOTAGE	7,500 - 9,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	10,000 - 12,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	12,500 - 14,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	15,000 - 17,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		168	20	179	367				
TOTAL FOOTAGE		254,880	26,249	307,869	588,998	1,517	1,312	1,720	1,605
TOTAL COSTS $		8,101,856	981,329	6,119,235	15,202,420	48,225	49,066	34,186	41,423

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

KANSAS

Table 20

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		338	93	126	557				
FOOTAGE	0 - 1,249	296,737	71,550	106,569	474,856	878	769	846	853
COSTS $		5,976,132	2,244,932	1,304,072	9,525,136	17,681	24,139	10,350	17,101
WELLS		169	98	169	436				
FOOTAGE	1,250 - 2,499	279,037	150,092	283,687	712,816	1,651	1,532	1,679	1,635
COSTS $		5,934,715	4,984,878	3,672,687	14,592,280	35,117	50,866	21,732	33,469
WELLS		293	83	329	705				
FOOTAGE	2,500 - 3,749	978,688	262,299	1,094,343	2,335,330	3,340	3,160	3,326	3,313
COSTS $		26,090,804	12,670,246	16,320,800	55,081,850	89,047	152,654	49,607	78,130
WELLS		393	27	538	958				
FOOTAGE	3,750 - 4,999	1,708,466	119,063	2,352,867	4,180,396	4,347	4,410	4,373	4,364
COSTS $		48,733,638	4,588,147	36,484,081	89,805,866	124,004	169,931	67,814	93,743
WELLS		92	75	171	338				
FOOTAGE	5,000 - 7,499	519,728	447,098	960,295	1,927,121	5,649	5,961	5,616	5,702
COSTS $		21,954,596	20,603,367	20,679,278	63,237,241	238,637	274,712	120,931	187,092
WELLS		--	--	1	1				
FOOTAGE	7,500 - 9,999	--	--	7,745	7,745	--	--	7,745	7,745
COSTS $		--	--	473,729	473,729	--	--	473,729	473,729
WELLS		--	--	--	--				
FOOTAGE	10,000 - 12,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	12,500 - 14,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	15,000 - 17,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		1,285	376	1,334	2,995				
TOTAL FOOTAGE		3,782,656	1,050,102	4,805,506	9,638,264	2,944	2,793	3,602	3,218
TOTAL COSTS $		108,689,885	45,091,570	78,934,647	232,716,102	84,584	119,924	59,171	77,702

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

KENTUCKY

Table 21

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		122	25	221	368				
FOOTAGE	0 - 1,249	82,668	23,123	149,187	254,978	678	925	675	693
COSTS $		2,468,239	854,422	2,187,593	5,510,254	20,231	34,177	9,899	14,974
WELLS		102	111	164	377				
FOOTAGE	1,250 - 2,499	174,575	198,620	296,830	670,025	1,712	1,789	1,810	1,777
COSTS $		6,084,363	9,326,904	6,700,434	22,111,701	59,651	84,026	40,856	58,652
WELLS		19	46	24	89				
FOOTAGE	2,500 - 3,749	53,095	154,651	67,172	276,918	2,900	3,362	2,799	3,111
COSTS $		1,831,121	7,827,901	1,609,370	11,268,392	96,375	170,172	67,057	126,611
WELLS		3	21	4	28				
FOOTAGE	3,750 - 4,999	11,887	84,125	15,762	111,774	3,962	4,006	3,941	3,992
COSTS $		445,849	4,151,349	365,817	4,963,015	148,616	197,683	91,454	177,251
WELLS		1	5	--	6				
FOOTAGE	5,000 - 7,499	5,981	31,179	--	37,160	5,981	6,236	--	6,193
COSTS $		790,310	2,461,483	--	3,251,793	790,310	492,297	--	541,966
WELLS		--	--	--	--				
FOOTAGE	7,500 - 9,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	1	--	1				
FOOTAGE	10,000 - 12,499	--	10,608	--	10,608	--	10,608	--	10,608
COSTS $		--	2,472,392	--	2,472,392	--	2,472,392	--	2,472,392
WELLS		--	--	--	--				
FOOTAGE	12,500 - 14,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	15,000 - 17,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		247	209	413	869				
TOTAL FOOTAGE		330,206	502,306	528,951	1,361,463	1,337	2,403	1,281	1,567
TOTAL COSTS $		11,619,882	27,094,451	10,863,214	49,577,547	47,044	129,639	26,303	57,051

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

LOUISIANA - TOTAL

Table 22

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		273	12	54	339				
FOOTAGE	0 - 1,249	286,937	11,266	53,810	352,013	1,051	939	996	1,038
COSTS $		8,590,967	288,178	1,348,454	10,227,599	31,469	24,015	24,971	30,170
WELLS		229	116	65	410				
FOOTAGE	1,250 - 2,499	399,180	266,299	122,184	787,663	1,743	2,296	1,880	1,921
COSTS $		12,309,359	6,207,001	4,427,538	22,943,898	53,753	53,509	68,116	55,961
WELLS		90	70	128	288				
FOOTAGE	2,500 - 3,749	289,878	209,715	387,147	886,740	3,221	2,996	3,025	3,079
COSTS $		12,400,320	8,014,843	8,746,515	29,161,678	137,781	114,498	68,332	101,256
WELLS		74	22	100	196				
FOOTAGE	3,750 - 4,999	322,519	91,176	426,718	840,413	4,358	4,144	4,267	4,288
COSTS $		15,608,270	4,561,623	10,381,422	30,551,315	210,923	207,347	103,814	155,874
WELLS		127	47	158	332				
FOOTAGE	5,000 - 7,499	797,549	301,181	974,692	2,073,422	6,280	6,408	6,169	6,245
COSTS $		82,798,965	37,012,214	55,812,547	175,623,726	651,960	787,494	353,244	528,987
WELLS		155	83	141	379				
FOOTAGE	7,500 - 9,999	1,360,298	742,920	1,232,342	3,335,560	8,776	8,951	8,740	8,801
COSTS $		223,521,051	84,319,182	134,471,778	442,312,011	1,442,071	1,015,894	953,701	1,167,050
WELLS		114	90	205	409				
FOOTAGE	10,000 - 12,499	1,259,526	1,019,390	2,281,215	4,560,131	11,048	11,327	11,128	11,149
COSTS $		223,387,637	183,991,821	238,277,406	645,656,864	1,959,541	2,044,354	1,162,329	1,578,623
WELLS		45	54	129	228				
FOOTAGE	12,500 - 14,999	605,999	737,490	1,749,995	3,093,484	13,467	13,657	13,566	13,568
COSTS $		140,809,049	167,102,375	346,418,166	654,329,590	3,129,090	3,094,489	2,685,412	2,869,867
WELLS		17	40	52	109				
FOOTAGE	15,000 - 17,499	265,660	645,196	826,945	1,737,801	15,627	16,130	15,903	15,943
COSTS $		112,679,769	218,945,731	226,231,586	557,857,086	6,628,222	5,473,644	4,350,608	5,117,955
WELLS		3	8	20	31				
FOOTAGE	17,500 - 19,999	54,337	148,307	371,146	573,790	18,112	18,538	18,557	18,509
COSTS $		24,675,073	72,229,008	117,779,774	214,683,855	8,225,025	9,028,626	5,888,989	6,925,286
WELLS		1	--	12	13				
FOOTAGE	20,000 & OVER	21,253	--	259,325	280,578	21,253	--	21,610	21,583
COSTS $		13,915,174	--	132,943,804	146,858,978	13,915,174	--	11,078,650	11,296,844
TOTAL WELLS		1,128	542	1,064	2,734				
TOTAL FOOTAGE		5,663,136	4,172,940	8,685,519	18,521,595	5,021	7,699	8,163	6,775
TOTAL COSTS $		870,695,634	782,671,976	1,276,838,990	2,930,206,600	771,893	1,444,044	1,200,037	1,071,765

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

Table 23

LOUISIANA - NORTH

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		269	12	52	333				
FOOTAGE	0 - 1,249	282,174	11,266	52,089	345,529	1,049	939	1,002	1,038
COSTS $		7,786,011	288,178	1,200,438	9,274,627	28,944	24,015	23,085	27,852
WELLS		213	116	58	387				
FOOTAGE	1,250 - 2,499	372,416	266,299	109,430	748,145	1,748	2,296	1,887	1,933
COSTS $		10,464,836	6,207,001	2,021,960	18,693,797	49,131	53,509	34,861	48,304
WELLS		79	64	117	260				
FOOTAGE	2,500 - 3,749	254,425	191,482	352,951	798,858	3,221	2,992	3,017	3,073
COSTS $		7,859,202	4,766,507	5,672,115	18,297,824	99,484	74,477	48,480	70,376
WELLS		52	19	87	158				
FOOTAGE	3,750 - 4,999	222,861	77,315	370,247	670,423	4,286	4,069	4,256	4,243
COSTS $		7,134,188	2,111,427	5,465,947	14,711,562	137,196	111,128	62,827	93,111
WELLS		34	22	94	150				
FOOTAGE	5,000 - 7,499	212,480	141,495	570,122	924,097	6,249	6,432	6,065	6,161
COSTS $		5,756,292	5,480,997	9,928,840	21,166,129	169,303	249,136	105,626	141,108
WELLS		3	40	23	66				
FOOTAGE	7,500 - 9,999	25,365	356,648	193,993	576,006	8,455	8,916	8,434	8,727
COSTS $		1,004,699	20,243,462	5,485,153	26,733,314	334,900	506,087	238,485	405,050
WELLS		10	9	24	43				
FOOTAGE	10,000 - 12,499	106,969	101,919	263,050	471,938	10,697	11,324	10,960	10,975
COSTS $		7,754,667	9,660,349	12,895,517	30,310,533	775,467	1,073,372	537,313	704,896
WELLS		--	--	6	6				
FOOTAGE	12,500 - 14,999	--	--	78,367	78,367	--	--	13,061	13,061
COSTS $		--	--	7,384,138	7,384,138	--	--	1,230,690	1,230,690
WELLS		--	--	--	--				
FOOTAGE	15,000 - 17,499	--	--	--	--				
COSTS $		--	--	--	--	--	--	--	--
						--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--				
COSTS $		--	--	--	--	--	--	--	--
						--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--				
COSTS $		--	--	--	--	--	--	--	--
						--	--	--	--
TOTAL WELLS		660	282	461	1,403				
TOTAL FOOTAGE		1,476,690	1,146,424	1,990,249	4,613,363	2,237	4,065	4,317	3,288
TOTAL COSTS $		47,759,895	48,757,921	50,054,108	146,571,924	72,363	172,900	108,577	104,470

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

LOUISIANA - SOUTH

Table 24

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
		4	--	1	5				
WELLS									
FOOTAGE	0 - 1,249	4,763	--	1,186	5,949	1,191	--	1,186	1,190
COSTS $		804,956	--	62,060	867,016	201,239	--	62,060	173,403
WELLS		16	--	5	21				
FOOTAGE	1,250 - 2,499	26,764	--	8,826	35,590	1,673	--	1,765	1,695
COSTS $		1,844,523	--	351,148	2,195,671	115,283	--	70,230	104,556
WELLS		9	1	9	19				
FOOTAGE	2,500 - 3,749	29,148	2,708	27,173	59,029	3,239	2,708	3,019	3,107
COSTS $		2,249,647	262,413	2,141,072	4,653,132	249,961	262,413	237,897	244,902
WELLS		20	2	11	33				
FOOTAGE	3,750 - 4,999	90,416	9,061	47,694	147,171	4,521	4,531	4,336	4,460
COSTS $		5,522,102	527,976	2,233,310	8,283,388	276,105	263,988	203,028	251,012
WELLS		48	5	27	80				
FOOTAGE	5,000 - 7,499	306,541	34,090	165,706	506,337	6,386	6,818	6,137	6,329
COSTS $		22,316,973	2,478,355	7,816,968	32,612,296	464,937	495,671	289,517	407,654
WELLS		64	24	69	157				
FOOTAGE	7,500 - 9,999	560,057	219,408	609,129	1,388,594	8,751	9,142	8,828	8,845
COSTS $		45,240,901	20,579,106	31,632,125	97,452,132	706,889	857,463	458,437	620,714
WELLS		52	41	135	228				
FOOTAGE	10,000 - 12,499	578,177	470,619	1,513,045	2,561,841	11,119	11,479	11,208	11,236
COSTS $		57,280,480	64,944,968	111,804,132	234,029,580	1,101,548	1,584,024	828,179	1,026,446
WELLS		21	36	75	132				
FOOTAGE	12,500 - 14,999	280,404	489,225	1,013,520	1,783,149	13,353	13,590	13,514	13,509
COSTS $		44,452,417	75,944,972	100,674,156	221,071,545	2,116,782	2,109,583	1,342,322	1,674,784
WELLS		3	24	28	55				
FOOTAGE	15,000 - 17,499	46,221	386,928	451,166	884,315	15,407	16,122	16,113	16,078
COSTS $		13,628,985	91,615,368	72,974,326	178,218,679	4,542,995	3,817,307	2,606,226	3,240,340
WELLS		2	5	15	22				
FOOTAGE	17,500 - 19,999	36,125	91,021	276,501	403,647	18,063	18,204	18,433	18,348
COSTS $		10,789,540	31,175,272	70,440,141	112,404,953	5,394,770	6,235,055	4,696,010	5,109,316
WELLS		1	--	9	10				
FOOTAGE	20,000 & OVER	21,253	--	196,891	218,144	21,253	--	21,877	21,814
COSTS $		13,915,174	--	105,292,121	119,207,295	13,915,174	--	11,699,125	11,920,730
TOTAL WELLS		240	138	384	762				
TOTAL FOOTAGE		1,979,869	1,703,060	4,310,837	7,993,766	8,249	12,341	11,226	10,491
TOTAL COSTS $		218,045,698	287,528,430	505,421,559	1,010,995,687	908,524	2,083,539	1,316,202	1,326,766

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

LOUISIANA - OFFSHORE

Table 25

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
		---	---	---	---	---	---	---	---
WELLS		--	--	1	1				
FOOTAGE	0 - 1,249	--	--	535	535	--	--	535	535
COSTS $		--	--	85,956	85,956	--	--	85,956	85,956
WELLS		--	--	2	2				
FOOTAGE	1,250 - 2,499	--	--	3,928	3,928	--	--	1,964	1,964
COSTS $		--	--	2,054,430	2,054,430	--	--	1,027,215	1,027,215
WELLS		2	5	2	9				
FOOTAGE	2,500 - 3,749	6,305	15,525	7,023	28,853	3,153	3,105	3,512	3,206
COSTS $		2,291,471	2,985,923	933,328	6,210,722	1,145,736	597,185	466,664	690,080
WELLS		2	1	2	5				
FOOTAGE	3,750 - 4,999	9,242	4,800	8,777	22,819	4,621	4,800	4,389	4,564
COSTS $		2,951,980	1,922,220	2,682,165	7,556,365	1,475,990	1,922,220	1,341,083	1,511,273
WELLS		45	20	37	102				
FOOTAGE	5,000 - 7,499	278,528	125,596	238,864	642,988	6,190	6,280	6,456	6,304
COSTS $		54,725,700	29,052,862	38,066,739	121,845,301	1,216,127	1,452,643	1,028,831	1,194,562
WELLS		88	19	49	156				
FOOTAGE	7,500 - 9,999	774,876	166,864	429,220	1,370,960	8,805	8,782	8,760	8,788
COSTS $		177,275,451	43,496,614	97,354,500	318,126,565	2,014,494	2,289,296	1,986,827	2,039,273
WELLS		52	40	46	138				
FOOTAGE	10,000 - 12,499	574,380	446,852	505,120	1,526,352	11,046	11,171	10,981	11,061
COSTS $		158,352,490	109,386,504	113,577,757	381,316,751	3,045,240	2,734,663	2,469,082	2,763,165
WELLS		24	18	48	90				
FOOTAGE	12,500 - 14,999	325,595	248,265	658,108	1,231,368	13,566	13,793	13,711	13,689
COSTS $		96,356,632	91,157,403	238,359,872	425,873,907	4,014,860	5,064,300	4,965,831	4,731,933
WELLS		14	16	24	54				
FOOTAGE	15,000 - 17,499	219,439	258,268	375,779	853,486	15,674	16,142	15,657	15,805
COSTS $		99,050,784	127,330,363	153,257,260	379,638,407	7,075,056	7,958,148	6,385,719	7,030,341
WELLS		1	3	5	9				
FOOTAGE	17,500 - 19,999	18,212	57,286	94,645	170,143	18,212	19,095	18,929	18,905
COSTS $		13,885,533	41,053,736	47,339,633	102,278,902	13,885,533	13,684,579	9,467,927	11,364,322
WELLS		--	--	3	3				
FOOTAGE	20,000 & OVER	--	--	62,434	62,434	--	--	20,811	20,811
COSTS $		--	--	27,651,683	27,651,683	--	--	9,217,228	9,217,228
TOTAL WELLS		228	122	219	569				
TOTAL FOOTAGE		2,206,577	1,323,456	2,384,433	5,914,466	9,678	10,848	10,888	10,394
TOTAL COSTS $		604,890,041	446,385,625	721,363,323	1,772,638,989	2,653,027	3,658,899	3,293,897	3,115,359

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

MICHIGAN

Table 26

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		3	1	6	10				
FOOTAGE	0 - 1,249	2,916	1,242	6,139	10,297	972	1,242	1,023	1,030
COSTS $		299,581	58,634	173,117	531,332	99,860	58,634	28,853	53,133
WELLS		6	27	8	41				
FOOTAGE	1,250 - 2,499	11,265	42,598	16,415	70,278	1,878	1,578	2,052	1,714
COSTS $		760,596	1,920,671	706,860	3,388,127	126,766	71,136	88,358	82,637
WELLS		30	5	46	81				
FOOTAGE	2,500 - 3,749	101,135	17,654	152,290	271,079	3,371	3,531	3,311	3,347
COSTS $		5,036,974	1,311,904	7,758,356	14,107,234	167,899	262,381	168,660	174,163
WELLS		48	5	103	156				
FOOTAGE	3,750 - 4,999	204,702	21,507	445,814	672,023	4,265	4,301	4,328	4,308
COSTS $		11,208,243	1,626,215	21,462,266	34,296,724	233,505	325,243	208,372	219,851
WELLS		27	14	117	158				
FOOTAGE	5,000 - 7,499	166,226	92,251	737,870	996,347	6,157	6,589	6,307	6,306
COSTS $		9,904,398	5,557,011	32,797,137	48,258,546	366,830	396,929	280,317	305,434
WELLS		1	9	10	20				
FOOTAGE	7,500 - 9,999	8,345	79,185	84,836	172,366	8,345	8,798	8,484	8,618
COSTS $		1,031,049	8,371,025	8,090,266	17,492,340	1,031,049	930,114	809,027	874,617
WELLS		1	8	9	18				
FOOTAGE	10,000 - 12,499	11,330	88,326	102,562	202,218	11,330	11,041	11,396	11,234
COSTS $		3,963,038	18,797,195	13,855,589	36,615,822	3,963,038	2,349,650	1,539,510	2,034,212
WELLS		--	1	2	3				
FOOTAGE	12,500 - 14,999	--	12,810	25,235	38,045	--	12,810	12,618	12,682
COSTS $		--	1,837,915	3,849,088	5,687,003	--	1,837,915	1,924,544	1,895,668
WELLS		--	--	--	--				
FOOTAGE	15,000 - 17,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		116	70	301	487				
TOTAL FOOTAGE		505,919	355,573	1,571,161	2,432,653	4,361	5,080	5,220	4,995
TOTAL COSTS $		32,203,879	39,480,570	88,692,679	160,377,128	277,620	564,008	294,660	329,317

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

MISSISSIPPI

Table 27

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		--	--	--	--				
FOOTAGE	0 - 1,249	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		1	3	7	11				
FOOTAGE	1,250 - 2,499	1,746	5,880	14,705	22,331	1,746	1,960	2,101	2,030
COSTS $		360,936	350,619	534,765	1,246,320	360,936	116,873	76,395	113,302
WELLS		1	3	12	16				
FOOTAGE	2,500 - 3,749	3,075	8,546	39,245	50,866	3,075	2,849	3,270	3,179
COSTS $		150,309	420,854	1,092,597	1,663,760	150,309	140,285	91,050	103,985
WELLS		15	3	20	38				
FOOTAGE	3,750 - 4,999	65,733	12,296	88,485	166,514	4,382	4,099	4,424	4,382
COSTS $		2,269,685	542,100	2,062,688	4,874,473	151,312	180,700	103,134	128,276
WELLS		20	6	61	87				
FOOTAGE	5,000 - 7,499	126,074	36,680	392,300	555,054	6,304	6,113	6,431	6,380
COSTS $		3,963,784	1,468,389	6,450,828	11,883,001	198,189	244,732	105,751	136,586
WELLS		11	--	18	29				
FOOTAGE	7,500 - 9,999	92,138	--	158,388	250,526	8,376	--	8,799	8,639
COSTS $		3,432,154	--	4,375,104	7,807,258	312,014	--	243,061	269,216
WELLS		17	--	28	45				
FOOTAGE	10,000 - 12,499	189,336	--	314,353	503,689	11,137	--	11,227	11,193
COSTS $		10,804,007	--	15,740,410	26,544,417	635,530	--	562,158	589,876
WELLS		12	6	21	39				
FOOTAGE	12,500 - 14,999	165,130	84,574	285,907	535,611	13,761	14,096	13,615	13,734
COSTS $		13,626,514	6,757,318	17,048,778	37,432,610	1,135,543	1,126,220	811,847	959,811
WELLS		4	10	12	26				
FOOTAGE	15,000 - 17,499	63,601	157,989	194,770	416,360	15,900	15,799	16,231	16,014
COSTS $		7,462,414	24,071,409	18,581,334	50,115,157	1,865,604	2,407,141	1,548,445	1,927,506
WELLS		1	3	6	10				
FOOTAGE	17,500 - 19,999	17,700	55,404	107,753	180,857	17,700	18,468	17,959	18,086
COSTS $		2,937,052	13,661,040	15,845,683	32,443,775	2,937,052	4,553,680	2,640,947	3,244,378
WELLS		--	1	--	1				
FOOTAGE	20,000 & OVER	--	22,230	--	22,230	--	22,230	--	22,230
COSTS $		--	12,985,086	--	12,985,086	--	12,985,086	--	12,985,086
TOTAL WELLS		82	35	185	302				
TOTAL FOOTAGE		724,533	383,599	1,595,906	2,704,038	8,836	10,960	8,627	8,954
TOTAL COSTS $		45,006,855	60,256,815	81,732,187	186,995,857	548,864	1,721,623	441,796	619,192

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

MONTANA

Table 28

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		1	18	25	44				
FOOTAGE	0 - 1,249	985	15,358	22,860	39,203	985	853	914	891
COSTS $		21,178	470,638	677,491	1,169,307	21,178	26,147	27,100	26,575
WELLS		25	64	53	142				
FOOTAGE	1,250 - 2,499	46,929	101,781	93,417	242,127	1,877	1,590	1,763	1,705
COSTS $		1,653,675	3,361,004	2,963,396	7,978,075	66,147	52,516	55,913	56,184
WELLS		4	8	17	29				
FOOTAGE	2,500 - 3,749	12,300	22,796	56,064	91,160	3,075	2,850	3,298	3,143
COSTS $		573,258	986,197	2,057,927	3,617,382	143,315	123,275	121,055	124,737
WELLS		5	1	25	31				
FOOTAGE	3,750 - 4,999	21,349	4,670	109,559	135,578	4,270	4,670	4,382	4,373
COSTS $		1,135,180	231,180	4,906,390	6,272,750	227,036	231,180	196,256	202,347
WELLS		11	1	31	43				
FOOTAGE	5,000 - 7,499	67,647	6,706	188,069	262,422	6,150	6,706	6,067	6,103
COSTS $		5,112,954	454,332	8,047,755	13,615,041	464,814	454,332	259,605	316,629
WELLS		16	--	18	34				
FOOTAGE	7,500 - 9,999	140,352	--	149,225	289,577	8,772	--	8,290	8,517
COSTS $		8,975,881	--	6,807,914	15,783,795	560,993	--	378,217	464,229
WELLS		13	--	5	18				
FOOTAGE	10,000 - 12,499	149,316	--	54,226	203,542	11,486	--	10,845	11,308
COSTS $		13,793,911	--	7,925,055	21,718,966	1,061,070	--	1,585,011	1,206,609
WELLS		3	--	3	6				
FOOTAGE	12,500 - 14,999	37,890	--	39,270	77,160	12,630	--	13,090	12,860
COSTS $		3,337,418	--	7,788,316	11,125,734	1,112,473	--	2,596,105	1,854,289
WELLS		--	--	1	1				
FOOTAGE	15,000 - 17,499	--	--	16,000	16,000	--	--	16,000	16,000
COSTS $		--	--	6,349,359	6,349,359	--	--	6,349,359	6,349,359
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		78	92	178	348				
TOTAL FOOTAGE		476,768	151,311	728,690	1,356,769	6,112	1,645	4,094	3,899
TOTAL COSTS $		34,603,455	5,503,351	47,523,603	87,630,409	443,634	59,819	266,987	251,812

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

NEBRASKA

Table 29

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
0 - 1,249	WELLS	--	--	--	--				
	FOOTAGE	--	--	--	--				
	COSTS $	--	--	--	--	--	--	--	--
						--	--	--	--
1,250 - 2,499	WELLS	--	--	--	--				
	FOOTAGE	--	--	--	--				
	COSTS $	--	--	--	--	--	--	--	--
						--	--	--	--
2,500 - 3,749	WELLS	3	--	6	9				
	FOOTAGE	10,663	--	21,147	31,810	3,554	--	3,525	3,534
	COSTS $	267,002	--	260,815	527,817	89,001	--	43,469	58,646
3,750 - 4,999	WELLS	22	1	32	55				
	FOOTAGE	97,367	3,769	143,491	244,627	4,426	3,769	4,484	4,448
	COSTS $	2,932,195	80,388	1,760,826	4,773,409	133,282	80,388	55,026	86,789
5,000 - 7,499	WELLS	13	--	59	72				
	FOOTAGE	85,066	--	357,135	442,201	6,544	--	6,053	6,142
	COSTS $	6,272,990	--	7,074,850	13,347,840	482,538	--	119,913	185,387
7,500 - 9,999	WELLS	4	--	3	7				
	FOOTAGE	32,085	--	23,443	55,528	8,021	--	7,814	7,933
	COSTS $	3,110,461	--	730,940	3,841,401	777,615	--	243,647	548,772
10,000 - 12,499	WELLS	--	--	--	--				
	FOOTAGE	--	--	--	--				
	COSTS $	--	--	--	--	--	--	--	--
						--	--	--	--
12,500 - 14,999	WELLS	--	--	--	--				
	FOOTAGE	--	--	--	--				
	COSTS $	--	--	--	--	--	--	--	--
						--	--	--	--
15,000 - 17,499	WELLS	--	--	--	--				
	FOOTAGE	--	--	--	--				
	COSTS $	--	--	--	--	--	--	--	--
						--	--	--	--
17,500 - 19,999	WELLS	--	--	--	--				
	FOOTAGE	--	--	--	--				
	COSTS $	--	--	--	--	--	--	--	--
						--	--	--	--
20,000 & OVER	WELLS	--	--	--	--				
	FOOTAGE	--	--	--	--				
	COSTS $	--	--	--	--	--	--	--	--
						--	--	--	--
TOTAL	WELLS	42	1	100	143				
	FOOTAGE	225,181	3,769	545,216	774,166	5,361	3,769	5,452	5,414
	COSTS $	12,582,648	80,388	9,827,431	22,490,467	299,587	80,388	98,274	157,276

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

NEW MEXICO - TOTAL

Table 30

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		9	1	12	22				
FOOTAGE	0 - 1,249	6,454	1,225	7,238	14,917	717	1,225	603	678
COSTS $		518,083	68,069	337,794	923,946	57,565	68,069	28,150	41,998
WELLS		44	13	32	89				
FOOTAGE	1,250 - 2,499	88,351	25,810	68,018	182,179	2,008	1,985	2,126	2,047
COSTS $		5,134,011	920,322	3,159,508	9,213,841	116,682	70,794	98,735	103,526
WELLS		45	37	24	106				
FOOTAGE	2,500 - 3,749	150,692	120,164	74,162	345,018	3,349	3,248	3,090	3,255
COSTS $		9,379,569	6,173,732	3,446,355	18,999,656	208,435	166,858	143,598	179,242
WELLS		107	21	26	154				
FOOTAGE	3,750 - 4,999	460,325	93,302	112,960	666,587	4,302	4,443	4,345	4,328
COSTS $		22,449,595	5,412,617	5,159,176	33,021,388	209,809	257,744	198,430	214,425
WELLS		80	101	33	214				
FOOTAGE	5,000 - 7,499	492,555	630,914	200,011	1,323,480	6,157	6,247	6,061	6,184
COSTS $		28,765,330	27,839,646	11,818,698	68,423,674	359,567	275,640	358,142	319,737
WELLS		136	33	18	187				
FOOTAGE	7,500 - 9,999	1,162,492	263,461	157,929	1,583,882	8,548	7,984	8,774	8,470
COSTS $		72,719,501	16,681,464	8,071,191	97,472,156	534,702	505,499	448,400	521,241
WELLS		55	15	31	101				
FOOTAGE	10,000 - 12,499	610,356	173,463	346,180	1,129,999	11,097	11,564	11,167	11,188
COSTS $		38,391,055	13,684,823	17,678,681	69,754,559	698,019	912,322	570,280	690,639
WELLS		13	12	3	28				
FOOTAGE	12,500 - 14,999	171,627	162,548	39,821	373,996	13,202	13,546	13,274	13,357
COSTS $		15,750,881	16,694,879	3,078,882	35,524,642	1,211,606	1,391,240	1,026,294	1,268,737
WELLS		2	5	2	9				
FOOTAGE	15,000 - 17,499	30,642	77,222	30,880	138,744	15,321	15,444	15,440	15,416
COSTS $		3,231,064	6,624,164	3,861,490	13,716,718	1,615,532	1,324,833	1,930,745	1,524,080
WELLS		--	1	--	1				
FOOTAGE	17,500 - 19,999	--	17,787	--	17,787	--	17,787	--	17,787
COSTS $		--	2,840,553	--	2,840,553	--	2,840,553	--	2,840,553
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		491	239	181	911				
TOTAL FOOTAGE		3,173,494	1,565,896	1,037,199	5,776,589	6,463	6,552	5,730	6,341
TOTAL COSTS $		196,339,089	96,940,269	56,611,775	349,891,133	399,876	405,608	312,772	384,074

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

Table 31

NEW MEXICO - WEST

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		5	1	4	10				
FOOTAGE	0 - 1,249	3,565	1,225	2,772	7,562	713	1,225	693	756
COSTS $		322,162	68,069	51,826	442,057	64,432	68,069	12,957	44,206
WELLS		6	11	9	26				
FOOTAGE	1,250 - 2,499	11,958	21,860	18,412	52,230	1,993	1,987	2,046	2,009
COSTS $		592,130	751,902	417,746	1,761,778	98,688	68,355	46,416	67,761
WELLS		3	16	5	24				
FOOTAGE	2,500 - 3,749	9,630	48,995	14,289	72,914	3,210	3,062	2,858	3,038
COSTS $		443,000	3,050,945	422,564	3,916,509	147,667	190,684	84,513	163,188
WELLS		12	15	4	31				
FOOTAGE	3,750 - 4,999	57,153	67,719	17,900	142,772	4,763	4,515	4,475	4,606
COSTS $		2,400,030	4,303,372	1,015,322	7,718,724	200,003	286,891	253,831	248,991
WELLS		34	97	10	141				
FOOTAGE	5,000 - 7,499	214,526	604,576	61,037	880,139	6,310	6,233	6,104	6,242
COSTS $		13,460,475	26,444,410	3,711,171	43,616,056	395,896	272,623	371,117	309,334
WELLS		52	28	--	80				
FOOTAGE	7,500 - 9,999	414,877	219,340	--	634,217	7,978	7,834	--	7,928
COSTS $		33,786,750	14,192,740	--	47,979,490	649,745	506,884	--	599,744
WELLS		--	--	--	--				
FOOTAGE	10,000 - 12,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	12,500 - 14,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	1	--	1				
FOOTAGE	15,000 - 17,499	--	16,400	--	16,400	--	16,400	--	16,400
COSTS $		--	461,721	--	461,721	--	461,721	--	461,721
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		112	169	32	313				
TOTAL FOOTAGE		711,709	980,115	114,410	1,806,234	6,355	5,799	3,575	5,771
TOTAL COSTS $		51,004,547	49,273,159	5,618,629	105,896,335	455,398	291,557	175,582	338,327

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

NEW MEXICO - EAST

Table 32

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		4	--	8	12				
FOOTAGE	0 - 1,249	2,889	--	4,466	7,355	722	--	558	613
COSTS $		195,921	--	285,968	481,889	48,980	--	35,746	40,157
WELLS		38	2	23	63				
FOOTAGE	1,250 - 2,499	76,393	3,950	49,606	129,949	2,010	1,975	2,157	2,063
COSTS $		4,541,881	168,420	2,741,762	7,452,063	119,523	84,210	119,207	118,287
WELLS		42	21	19	82				
FOOTAGE	2,500 - 3,749	141,062	71,169	59,873	272,104	3,359	3,389	3,151	3,318
COSTS $		8,936,569	3,122,787	3,023,791	15,083,147	212,775	148,704	159,147	183,941
WELLS		95	6	22	123				
FOOTAGE	3,750 - 4,999	403,172	25,583	95,060	523,815	4,244	4,264	4,321	4,259
COSTS $		20,049,565	1,109,245	4,143,854	25,302,664	211,048	184,874	188,357	205,713
WELLS		46	4	23	73				
FOOTAGE	5,000 - 7,499	278,029	26,338	138,974	443,341	6,044	6,585	6,042	6,073
COSTS $		15,304,855	1,395,236	8,107,527	24,807,618	332,714	348,809	352,501	339,830
WELLS		84	5	18	107				
FOOTAGE	7,500 - 9,999	747,615	44,121	157,929	949,665	8,900	8,824	8,774	8,875
COSTS $		38,932,751	2,488,724	8,071,191	49,492,666	463,485	497,745	448,400	462,548
WELLS		55	15	31	101				
FOOTAGE	10,000 - 12,499	610,356	173,463	346,180	1,129,999	11,097	11,564	11,167	11,188
COSTS $		38,391,055	13,684,823	17,678,681	69,754,559	698,019	912,322	570,280	690,639
WELLS		13	12	3	28				
FOOTAGE	12,500 - 14,999	171,627	162,548	39,821	373,996	13,202	13,546	13,274	13,357
COSTS $		15,750,881	16,694,879	3,078,882	35,524,642	1,211,606	1,391,240	1,026,294	1,268,737
WELLS		2	4	2	8				
FOOTAGE	15,000 - 17,499	30,642	60,822	30,880	122,344	15,321	15,206	15,440	15,293
COSTS $		3,231,064	6,162,443	3,861,490	13,254,997	1,615,532	1,540,611	1,930,745	1,656,875
WELLS		--	1	--	1				
FOOTAGE	17,500 - 19,999	--	17,787	--	17,787	--	17,787	--	17,787
COSTS $		--	2,840,553	--	2,840,553	--	2,840,553	--	2,840,553
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		379	70	149	598				
TOTAL FOOTAGE		2,461,785	585,781	922,789	3,970,355	6,495	8,368	6,193	6,639
TOTAL COSTS $		147 334,542	47,667,110	50,993,146	243,994,798	383,468	680,959	342,236	408,018

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

NORTH DAKOTA

Table 33

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		--	--	1	1				
FOOTAGE	0 - 1,249	--	--	439	439	--	--	439	439
COSTS $		--	--	9,571	9,571	--	--	9,571	9,571
WELLS		--	--	--	--				
FOOTAGE	1,250 - 2,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		6	--	7	13				
FOOTAGE	2,500 - 3,749	19,642	--	22,716	42,358	3,274	--	3,245	3,258
COSTS $		766,268	--	558,063	1,324,331	127,711	--	79,723	101,872
WELLS		5	--	7	12				
FOOTAGE	3,750 - 4,999	21,241	--	29,626	50,867	4,248	--	4,232	4,239
COSTS $		1,097,778	--	724,409	1,822,187	219,556	--	103,487	151,849
WELLS		9	--	28	37				
FOOTAGE	5,000 - 7,499	52,240	--	170,645	222,885	5,804	--	6,094	6,024
COSTS $		2,681,652	--	5,035,109	7,716,761	297,961	--	179,825	208,561
WELLS		35	--	37	72				
FOOTAGE	7,500 - 9,999	327,087	--	331,684	658,771	9,345	--	8,964	9,150
COSTS $		21,543,843	--	12,943,212	34,487,055	615,538	--	349,817	478,987
WELLS		32	--	16	48				
FOOTAGE	10,000 - 12,499	364,789	--	179,597	544,386	11,400	--	11,225	11,341
COSTS $		30,094,233	--	8,631,762	38,725,995	940,445	--	539,485	806,792
WELLS		21	3	13	37				
FOOTAGE	12,500 - 14,999	281,910	42,355	179,944	504,209	13,424	14,118	13,842	13,627
COSTS $		23,889,610	4,352,093	17,188,245	45,429,948	1,137,601	1,450,698	1,322,173	1,227,836
WELLS		--	--	--	--				
FOOTAGE	15,000 - 17,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		108	3	109	220				
TOTAL FOOTAGE		1,066,909	42,355	914,651	2,023,915	9,879	14,118	8,391	9,200
TOTAL COSTS $		80,073,384	4,352,093	45,090,371	129,515,848	741,420	1,450,698	413,673	588,708

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

OKLAHOMA

Table 34

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		218	76	69	363				
FOOTAGE	0 - 1,249	189,122	79,228	58,439	326,789	868	1,042	847	900
COSTS $		7,191,312	2,786,562	1,044,102	11,021,976	32,988	36,665	15,132	30,364
WELLS		420	173	196	789				
FOOTAGE	1,250 - 2,499	772,080	323,365	378,965	1,474,410	1,838	1,869	1,933	1,869
COSTS $		29,600,334	11,398,373	9,207,722	50,206,429	70,477	65,887	46,978	63,633
WELLS		339	130	190	659				
FOOTAGE	2,500 - 3,749	1,075,674	397,232	592,429	2,065,335	3,173	3,056	3,118	3,134
COSTS $		41,001,991	16,403,984	14,105,190	71,511,165	120,950	126,184	74,238	108,515
WELLS		249	65	236	550				
FOOTAGE	3,750 - 4,999	1,085,368	281,201	1,031,358	2,397,927	4,359	4,326	4,370	4,360
COSTS $		45,456,713	11,834,057	27,478,572	84,769,342	182,557	182,062	116,435	154,126
WELLS		295	167	301	763				
FOOTAGE	5,000 - 7,499	1,817,028	1,089,420	1,820,659	4,727,107	6,159	6,523	6,049	6,195
COSTS $		87,041,383	49,437,422	56,350,488	192,829,293	295,056	296,032	187,211	252,725
WELLS		367	210	121	698				
FOOTAGE	7,500 - 9,999	3,173,354	1,805,333	1,026,753	6,005,440	8,647	8,597	8,486	8,604
COSTS $		175,642,770	98,113,778	38,060,329	311,816,877	478,591	467,208	314,548	446,729
WELLS		113	116	49	278				
FOOTAGE	10,000 - 12,499	1,217,049	1,314,466	549,435	3,080,950	10,770	11,332	11,213	11,083
COSTS $		81,754,539	110,530,426	37,551,890	229,836,855	723,492	952,849	766,365	826,751
WELLS		23	66	35	124				
FOOTAGE	12,500 - 14,999	311,401	882,482	459,220	1,653,103	13,539	13,371	13,121	13,331
COSTS $		35,887,856	108,227,659	37,905,996	182,021,511	1,560,342	1,639,813	1,083,029	1,467,915
WELLS		1	18	10	29				
FOOTAGE	15,000 - 17,499	15,000	296,628	159,502	471,130	15,000	16,479	15,950	16,246
COSTS $		1,668,751	52,505,344	20,869,264	75,043,359	1,668,751	2,916,964	2,086,926	2,587,702
WELLS		1	14	13	28				
FOOTAGE	17,500 - 19,999	19,015	255,665	240,264	514,944	19,015	18,262	18,482	18,391
COSTS $		3,152,219	59,294,823	38,989,463	101,436,505	3,152,219	4,235,345	2,999,190	3,622,732
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		2,026	1,035	1,220	4,281				
TOTAL FOOTAGE		9,675,091	6,725,020	6,317,024	22,717,135	4,775	6,498	5,178	5,307
TOTAL COSTS $		508,397,868	520,532,428	281,563,016	1,310,493,312	250,937	502,930	230,789	306,119

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

TEXAS - TOTAL

Table 35

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		919	58	543	1,520				
FOOTAGE	0 - 1,249	630,486	45,959	417,430	1,093,875	686	792	769	720
COSTS $		16,414,772	1,694,572	9,056,915	27,166,259	17,862	29,217	16,679	17,873
WELLS		1,390	78	793	2,261				
FOOTAGE	1,250 - 2,499	2,405,341	142,674	1,424,043	3,972,058	1,730	1,829	1,796	1,757
COSTS $		86,752,324	4,845,322	30,907,507	122,505,153	62,412	62,120	38,975	54,182
WELLS		935	118	489	1,542				
FOOTAGE	2,500 - 3,749	2,971,511	373,159	1,535,125	4,879,795	3,178	3,162	3,139	3,165
COSTS $		131,873,601	14,039,232	40,173,198	186,086,031	141,041	118,977	82,154	120,678
WELLS		995	206	640	1,841				
FOOTAGE	3,750 - 4,999	4,431,053	889,689	2,802,645	8,123,387	4,453	4,319	4,379	4,412
COSTS $		160,968,001	31,322,305	69,617,917	261,908,223	161,777	152,050	108,778	142,264
WELLS		1,241	362	859	2,462				
FOOTAGE	5,000 - 7,499	7,683,219	2,258,098	5,205,527	15,146,844	6,191	6,238	6,060	6,152
COSTS $		345,313,268	106,624,297	161,833,034	613,770,599	278,254	294,542	188,397	249,298
WELLS		1,049	351	559	1,959				
FOOTAGE	7,500 - 9,999	9,128,739	3,119,124	4,832,908	17,080,771	8,702	8,886	8,646	8,719
COSTS $		493,244,656	263,021,370	226,162,230	982,428,256	470,205	749,349	404,584	501,495
WELLS		235	306	241	782				
FOOTAGE	10,000 - 12,499	2,570,202	3,325,808	2,648,219	8,544,229	10,937	10,869	10,988	10,926
COSTS $		187,502,771	372,937,492	187,581,829	748,022,092	797,884	1,218,750	778,348	956,550
WELLS		31	102	93	226				
FOOTAGE	12,500 - 14,999	405,417	1,387,077	1,250,411	3,042,905	13,078	13,599	13,445	13,464
COSTS $		35,913,009	377,081,890	170,044,567	583,039,466	1,158,484	3,696,881	1,828,436	2,579,821
WELLS		2	26	39	67				
FOOTAGE	15,000 - 17,499	31,558	413,342	630,544	1,075,444	15,779	15,898	16,168	16,051
COSTS $		4,815,763	154,937,670	183,802,076	343,555,509	2,407,882	5,959,141	4,712,874	5,127,694
WELLS		--	13	15	28				
FOOTAGE	17,500 - 19,999	--	234,007	278,214	512,221	--	18,001	18,548	18,294
COSTS $		--	107,066,154	91,601,264	198,667,418	--	8,235,858	6,106,751	7,095,265
WELLS		--	2	4	6				
FOOTAGE	20,000 & OVER	--	48,297	91,542	139,839	--	24,149	22,886	23,307
COSTS $		--	29,228,528	55,705,446	84,933,974	--	14,614,264	13,926,362	14,155,662
TOTAL WELLS		6,797	1,622	4,275	12,694				
TOTAL FOOTAGE		30,257,526	12,237,234	21,116,608	63,611,368	4,452	7,545	4,940	5,011
TOTAL COSTS $		1,462,798,165	1,462,798,832	1,226,485,983	4,152,082,980	215,212	901,849	286,897	327,090

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

TEXAS RRC DIST. 1

Table 36

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		397	2	88	487				
FOOTAGE	0 - 1,249	230,766	2,171	75,510	308,447	581	1,086	858	633
COSTS $		4,478,939	83,713	1,318,901	5,881,553	11,282	41,857	14,988	12,077
WELLS		528	6	154	688				
FOOTAGE	1,250 - 2,499	876,252	9,891	267,106	1,153,249	1,660	1,649	1,734	1,676
COSTS $		23,202,154	312,473	5,384,639	28,899,266	43,943	52,079	34,965	42,005
WELLS		85	5	82	172				
FOOTAGE	2,500 - 3,749	258,874	17,095	247,470	523,439	3,046	3,419	3,018	3,043
COSTS $		7,917,339	682,723	5,080,645	13,680,707	93,145	136,545	61,959	79,539
WELLS		29	15	29	73				
FOOTAGE	3,750 - 4,999	120,472	67,037	124,010	311,519	4,154	4,469	4,276	4,267
COSTS $		3,557,035	1,900,793	2,507,616	7,965,444	122,656	126,720	86,470	109,116
WELLS		52	12	60	124				
FOOTAGE	5,000 - 7,499	318,905	64,124	362,017	745,046	6,133	5,344	6,034	6,008
COSTS $		11,564,488	1,453,664	9,929,316	22,947,468	222,394	121,139	165,489	185,060
WELLS		56	2	21	79				
FOOTAGE	7,500 - 9,999	483,034	17,957	176,964	677,955	8,626	8,979	8,427	8,582
COSTS $		23,448,819	868,231	7,328,778	31,645,828	418,729	434,116	348,989	400,580
WELLS		2	6	5	13				
FOOTAGE	10,000 - 12,499	20,014	69,332	55,542	144,888	10,007	11,555	11,108	11,145
COSTS $		1,046,039	10,087,000	4,497,236	15,630,275	523,020	1,681,167	899,447	1,202,329
WELLS		--	1	3	4				
FOOTAGE	12,500 - 14,999	--	13,000	41,506	54,506	--	13,000	13,835	13,627
COSTS $		--	2,666,481	7,161,791	9,828,272	--	2,666,481	2,387,264	2,457,068
WELLS		--	--	--	--				
FOOTAGE	15,000 - 17,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	1	1				
FOOTAGE	17,500 - 19,999	--	--	19,745	19,745	--	--	19,745	19,745
COSTS $		--	--	8,111,487	8,111,487	--	--	8,111,487	8,111,487
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		1,149	49	443	1,641				
TOTAL FOOTAGE		2,308,317	260,607	1,369,870	3,938,794	2,009	5,319	3,092	2,400
TOTAL COSTS $		75,214,813	18,055,078	51,320,409	144,590,300	65,271	368,471	115,847	88,111

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

TEXAS RRC DIST. 2

Table 37

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	0 - 1,249	14	1	6	21				
FOOTAGE		15,112	1,160	6,173	22,445	1,079	1,160	1,029	1,069
COSTS $		531,173	81,200	279,026	891,399	37,941	81,200	46,504	42,448
WELLS	1,250 - 2,499	2	3	10	15				
FOOTAGE		4,458	6,269	19,879	30,606	2,229	2,090	1,988	2,040
COSTS $		272,409	240,645	482,513	995,567	136,205	80,215	48,251	66,371
WELLS	2,500 - 3,749	4	22	21	47				
FOOTAGE		14,102	70,157	67,419	151,678	3,526	3,189	3,210	3,227
COSTS $		489,836	2,016,280	1,590,825	4,096,941	122,459	91,649	75,754	87,169
WELLS	3,750 - 4,999	11	24	32	67				
FOOTAGE		48,714	101,904	140,543	291,161	4,429	4,246	4,392	4,346
COSTS $		2,520,473	3,402,196	2,770,284	8,692,953	229,134	141,758	86,571	129,746
WELLS	5,000 - 7,499	36	49	72	157				
FOOTAGE		219,992	287,501	438,132	945,625	6,111	5,867	6,085	6,023
COSTS $		9,789,579	10,432,934	10,318,670	30,541,183	271,933	212,917	143,315	194,530
WELLS	7,500 - 9,999	16	15	34	65				
FOOTAGE		134,634	129,191	297,982	561,807	8,415	8,613	8,764	8,643
COSTS $		10,279,813	7,609,558	9,190,473	27,079,844	642,488	507,304	270,308	416,613
WELLS	10,000 - 12,499	8	20	19	47				
FOOTAGE		87,562	215,109	203,979	506,650	10,945	10,755	10,736	10,780
COSTS $		9,315,353	18,794,351	11,032,029	39,141,733	1,164,419	939,718	580,633	832,803
WELLS	12,500 - 14,999	--	18	8	26				
FOOTAGE		--	246,409	109,300	355,709	--	13,689	13,663	13,681
COSTS $		--	38,337,574	13,467,042	51,804,616	--	2,129,865	1,683,380	1,992,485
WELLS	15,000 - 17,499	--	2	3	5				
FOOTAGE		--	31,017	50,150	81,167	--	15,509	16,717	16,233
COSTS $		--	9,082,269	12,383,096	21,465,365	--	4,541,135	4,127,699	4,293,073
WELLS	17,500 - 19,999	--	1	1	2				
FOOTAGE		--	18,000	18,500	36,500	--	18,000	18,500	18,250
COSTS $		--	12,524,405	6,496,641	19,021,046	--	12,524,405	6,496,641	9,510,523
WELLS	20,000 & OVER	--	--	--	--				
FOOTAGE		--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		91	155	206	452				
TOTAL FOOTAGE		524,574	1,106,717	1,352,057	2,983,348	5,765	7,140	6,563	6,600
TOTAL COSTS $		33,198,636	102,521,412	68,010,599	203,730,647	364,820	661,428	330,149	450,732

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

TEXAS RRC DIST. 3

Table 38

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		11	6	17	34				
FOOTAGE	0 - 1,249	8,545	4,574	12,823	25,942	777	762	754	763
COSTS $		516,348	131,476	277,679	925,503	46,941	21,913	16,334	27,221
WELLS		30	4	21	55				
FOOTAGE	1,250 - 2,499	59,215	8,466	37,701	105,382	1,974	2,117	1,795	1,916
COSTS $		3,358,836	284,851	812,625	4,456,312	111,961	71,213	38,696	81,024
WELLS		28	7	20	55				
FOOTAGE	2,500 - 3,749	87,185	20,767	60,389	168,341	3,114	2,967	3,019	3,061
COSTS $		4,873,657	648,692	1,466,890	6,989,239	174,059	92,670	73,345	127,077
WELLS		35	11	33	79				
FOOTAGE	3,750 - 4,999	152,709	47,861	143,962	344,532	4,363	4,351	4,362	4,361
COSTS $		8,024,040	1,741,927	3,449,980	13,215,947	229,258	158,357	104,545	167,290
WELLS		120	18	43	181				
FOOTAGE	5,000 - 7,499	710,849	114,288	268,242	1,093,379	5,924	6,349	6,238	6,041
COSTS $		37,808,651	4,909,092	7,534,645	50,252,388	315,072	272,727	175,224	277,638
WELLS		141	33	106	280				
FOOTAGE	7,500 - 9,999	1,225,309	292,289	930,606	2,448,204	8,690	8,857	8,779	8,744
COSTS $		77,363,308	17,597,876	39,902,018	134,863,202	548,676	533,269	376,434	481,654
WELLS		20	56	47	123				
FOOTAGE	10,000 - 12,499	219,778	624,996	514,551	1,359,325	10,989	11,161	10,948	11,051
COSTS $		22,742,864	60,817,345	34,445,884	118,006,093	1,137,143	1,086,024	732,891	959,399
WELLS		6	19	22	47				
FOOTAGE	12,500 - 14,999	78,297	257,155	294,796	630,248	13,050	13,534	13,400	13,410
COSTS $		9,939,055	49,236,629	35,408,865	94,584,549	1,656,509	2,591,402	1,609,494	2,012,437
WELLS		1	4	12	17				
FOOTAGE	15,000 - 17,499	15,100	64,601	192,530	272,231	15,100	16,150	16,044	16,014
COSTS $		2,004,525	18,144,039	44,014,403	64,162,967	2,004,525	4,536,010	3,667,867	3,774,292
WELLS		--	--	4	4				
FOOTAGE	17,500 - 19,999	--	--	73,639	73,639	--	--	18,410	18,410
COSTS $		--	--	21,136,935	21,136,935	--	--	5,284,234	5,284,234
WELLS		--	--	1	1				
FOOTAGE	20,000 & OVER	--	--	20,631	20,631	--	--	20,631	20,631
COSTS $		--	--	7,736,625	7,736,625	--	--	7,736,625	7,736,625
TOTAL WELLS		392	158	326	876				
TOTAL FOOTAGE		2,556,987	1,434,997	2,549,870	6,541,854	6,523	9,082	7,822	7,468
TOTAL COSTS $		166,631,284	153,511,927	196,186,549	516,329,760	425,080	971,595	601,799	589,418

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

Table 39

TEXAS RRC DIST. 4

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
	WELLS	--	2	3	5				
0 - 1,249	FOOTAGE	--	1,685	2,610	4,295	--	843	870	859
	COSTS $	--	157,892	171,251	329,143	--	78,946	57,084	65,829
	WELLS	16	4	28	48				
1,250 - 2,499	FOOTAGE	30,834	8,210	56,591	95,635	1,927	2,053	2,021	1,992
	COSTS $	1,518,606	456,319	2,499,619	4,474,544	94,913	114,080	89,272	93,220
	WELLS	11	10	28	49				
2,500 - 3,749	FOOTAGE	33,641	29,684	81,897	145,222	3,058	2,968	2,925	2,964
	COSTS $	1,408,221	1,217,662	2,410,968	5,036,851	128,020	121,766	86,106	102,793
	WELLS	15	11	20	46				
3,750 - 4,999	FOOTAGE	65,530	49,591	87,404	202,525	4,369	4,508	4,370	4,403
	COSTS $	2,627,420	1,814,355	2,540,149	6,981,924	175,161	164,941	127,007	151,781
	WELLS	59	68	109	236				
5,000 - 7,499	FOOTAGE	362,212	428,726	665,676	1,456,614	6,139	6,305	6,107	6,172
	COSTS $	14,654,994	20,614,815	23,141,321	58,411,130	248,390	303,159	212,306	247,505
	WELLS	39	136	81	256				
7,500 - 9,999	FOOTAGE	320,015	1,230,255	690,392	2,240,662	8,206	9,046	8,523	8,753
	COSTS $	16,786,633	122,358,512	39,548,071	178,693,216	430,427	899,695	488,248	698,020
	WELLS	1	108	36	145				
10,000 - 12,499	FOOTAGE	10,400	1,151,876	396,601	1,558,877	10,400	10,666	11,017	10,751
	COSTS $	1,374,454	139,951,018	38,529,753	179,855,225	1,374,454	1,295,843	1,070,271	1,240,381
	WELLS	1	16	8	25				
12,500 - 14,999	FOOTAGE	13,800	221,497	104,196	339,493	13,800	13,844	13,025	13,580
	COSTS $	1,663,501	43,023,756	13,058,429	57,745,686	1,663,501	2,688,985	1,632,304	2,309,828
	WELLS	1	8	8	17				
15,000 - 17,499	FOOTAGE	16,458	126,547	127,652	270,657	16,458	15,818	15,957	15,921
	COSTS $	2,811,238	28,610,009	25,441,134	56,862,381	2,811,238	3,576,251	3,180,142	3,344,846
	WELLS	--	--	3	3				
17,500 - 19,999	FOOTAGE	--	--	55,524	55,524	--	--	18,508	18,508
	COSTS $	--	--	13,031,117	13,031,117	--	--	4,343,706	4,343,706
	WELLS	--	--	--	--				
20,000 & OVER	FOOTAGE	--	--	--	--	--	--	--	--
	COSTS $	--	--	--	--	--	--	--	--
TOTAL WELLS		143	363	324	830				
TOTAL FOOTAGE		852,890	3,248,071	2,268,543	6,369,504	5,964	8,948	7,002	7,674
TOTAL COSTS $		42,845,067	358,204,338	160,371,812	561,421,217	299,616	986,789	494,975	676,411

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

TEXAS RRC DIST. 5

Table 40

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		38	3	45	86				
FOOTAGE	0 - 1,249	31,236	2,576	37,048	70,860	822	859	823	824
COSTS $		1,067,623	48,204	679,141	1,794,968	28,095	16,068	15,092	20,872
WELLS		15	1	20	36				
FOOTAGE	1,250 - 2,499	22,615	1,748	29,249	53,612	1,508	1,748	1,462	1,489
COSTS $		1,090,215	47,196	476,963	1,614,374	72,681	47,196	23,848	44,844
WELLS		20	1	13	34				
FOOTAGE	2,500 - 3,749	62,342	3,665	43,314	109,321	3,117	3,665	3,332	3,215
COSTS $		3,121,227	139,270	736,081	3,996,578	156,061	139,270	56,622	117,546
WELLS		2	2	16	20				
FOOTAGE	3,750 - 4,999	7,993	8,460	65,469	81,922	3,997	4,230	4,092	4,096
COSTS $		394,167	365,100	1,123,245	1,882,512	197,084	182,550	70,203	94,126
WELLS		2	4	8	14				
FOOTAGE	5,000 - 7,499	11,265	27,933	52,842	92,040	5,633	6,983	6,605	6,574
COSTS $		703,900	1,311,310	1,557,813	3,573,023	351,950	327,828	194,727	255,216
WELLS		47	6	29	82				
FOOTAGE	7,500 - 9,999	452,595	56,382	259,233	768,210	9,630	9,397	8,939	9,368
COSTS $		24,722,283	5,728,057	11,334,156	41,784,496	526,006	954,676	390,833	509,567
WELLS		36	37	9	82				
FOOTAGE	10,000 - 12,499	373,938	401,763	95,420	871,121	10,387	10,858	10,602	10,623
COSTS $		20,344,026	41,758,965	6,063,139	68,166,130	565,112	1,128,621	673,682	831,294
WELLS		--	6	2	8				
FOOTAGE	12,500 - 14,999	--	79,666	27,941	107,607	--	13,278	13,971	13,451
COSTS $		--	9,387,860	3,370,187	12,758,047	--	1,564,643	1,685,094	1,594,756
WELLS		--	1	1	2				
FOOTAGE	15,000 - 17,499	--	15,200	15,200	30,400	--	15,200	15,200	15,200
COSTS $		--	3,126,172	4,253,546	7,379,718	--	3,126,172	4,253,546	3,689,859
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		160	61	143	364				
TOTAL FOOTAGE		961,984	597,393	625,716	2,185,093	6,012	9,793	4,376	6,003
TOTAL COSTS $		51,443,441	61,912,134	29,594,271	142,949,846	321,522	1,014,953	206,953	392,719

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

TEXAS RRC DIST. 6

Table 41

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		32	4	12	48				
FOOTAGE	0 - 1,249	15,554	4,397	6,894	26,845	486	1,099	575	559
COSTS $		999,498	272,913	303,381	1,575,792	31,234	68,228	25,282	32,829
WELLS		17	1	20	38				
FOOTAGE	1,250 - 2,499	35,703	1,520	34,462	71,685	2,100	1,520	1,723	1,886
COSTS $		1,796,094	90,032	1,385,259	3,271,385	105,653	90,032	69,263	86,089
WELLS		7	3	5	15				
FOOTAGE	2,500 - 3,749	23,887	10,643	15,438	49,968	3,412	3,548	3,088	3,331
COSTS $		1,182,862	526,103	671,575	2,380,540	168,980	175,368	134,315	158,703
WELLS		62	4	36	102				
FOOTAGE	3,750 - 4,999	297,429	17,420	164,050	478,899	4,797	4,355	4,557	4,695
COSTS $		12,675,072	831,917	4,749,687	18,256,676	204,437	207,979	131,936	178,987
WELLS		78	77	65	220				
FOOTAGE	5,000 - 7,499	479,206	508,853	406,208	1,394,267	6,144	6,608	6,249	6,338
COSTS $		24,266,465	26,431,408	14,519,034	65,216,907	311,109	343,265	223,370	296,441
WELLS		47	74	40	161				
FOOTAGE	7,500 - 9,999	387,452	646,594	327,474	1,361,520	8,244	8,738	8,187	8,457
COSTS $		21,865,486	48,143,061	10,485,780	80,494,327	465,223	650,582	262,145	499,965
WELLS		16	40	21	77				
FOOTAGE	10,000 - 12,499	169,128	431,232	229,043	829,403	10,571	10,781	10,907	10,771
COSTS $		13,111,678	35,839,922	12,131,130	61,082,730	819,480	895,998	577,673	793,282
WELLS		--	2	5	7				
FOOTAGE	12,500 - 14,999	--	27,176	69,115	96,291	--	13,588	13,823	13,756
COSTS $		--	5,103,350	6,906,708	12,010,058	--	2,551,675	1,381,342	1,715,723
WELLS		--	--	1	1				
FOOTAGE	15,000 - 17,499	--	--	15,351	15,351	--	--	15,351	15,351
COSTS $		--	--	5,171,733	5,171,733	--	--	5,171,733	5,171,733
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		259	205	205	669				
TOTAL FOOTAGE		1,408,359	1,647,835	1,268,035	4,324,229	5,438	8,038	6,186	6,464
TOTAL COSTS $		75,897,155	117,238,706	56,324,287	249,460,148	293,039	571,896	274,753	372,885

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

TEXAS RRC DIST. 7B

Table 42

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		170	31	212	413				
FOOTAGE	0 - 1,249	121,574	23,614	140,189	285,377	715	762	661	691
COSTS $		3,353,640	830,234	3,448,080	7,631,954	19,727	26,782	16,265	18,479
WELLS		262	48	257	567				
FOOTAGE	1,250 - 2,499	446,203	86,824	471,114	1,004,141	1,703	1,809	1,833	1,771
COSTS $		11,426,291	2,779,997	9,548,481	23,754,769	43,612	57,917	37,154	41,896
WELLS		175	49	162	386				
FOOTAGE	2,500 - 3,749	556,677	151,356	511,435	1,219,468	3,181	3,089	3,157	3,159
COSTS $		16,890,724	5,793,757	11,351,221	34,035,702	96,518	118,240	70,069	88,175
WELLS		264	114	222	600				
FOOTAGE	3,750 - 4,999	1,133,259	485,652	965,291	2,584,202	4,293	4,260	4,348	4,307
COSTS $		34,893,817	17,012,538	21,970,627	73,876,982	132,174	149,233	98,967	123,128
WELLS		97	18	144	259				
FOOTAGE	5,000 - 7,499	578,940	102,293	860,411	1,541,644	5,968	5,683	5,975	5,952
COSTS $		21,442,403	4,401,576	23,288,301	49,132,280	221,056	244,532	161,724	189,700
WELLS		--	--	1	1				
FOOTAGE	7,500 - 9,999	--	--	7,513	7,513	--	--	7,513	7,513
COSTS $		--	--	219,475	219,475	--	--	219,475	219,475
WELLS		--	--	--	--				
FOOTAGE	10,000 - 12,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	12,500 - 14,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	15,000 - 17,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		968	260	998	2,226				
TOTAL FOOTAGE		2,836,653	849,739	2,955,953	6,642,345	2,930	3,268	2,962	2,984
TOTAL COSTS $		88,006,875	30,818,102	69,826,185	188,651,162	90,916	118,531	69,966	84,749

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

TEXAS RRC DIST. 7C

Table 43

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		14	1	27	42				
FOOTAGE	0 - 1,249	13,364	910	26,166	40,440	955	910	969	963
COSTS $		652,162	36,222	882,700	1,571,084	46,583	36,222	32,693	37,407
WELLS		77	4	34	115				
FOOTAGE	1,250 - 2,499	146,909	6,181	65,273	218,363	1,908	1,545	1,920	1,899
COSTS $		6,893,141	227,955	2,094,192	9,215,288	89,521	56,989	61,594	80,133
WELLS		64	2	34	100				
FOOTAGE	2,500 - 3,749	194,250	7,050	113,738	315,038	3,035	3,525	3,345	3,150
COSTS $		8,367,429	223,240	3,349,894	11,940,563	130,741	111,620	98,526	119,406
WELLS		65	6	63	134				
FOOTAGE	3,750 - 4,999	276,669	26,018	274,139	576,826	4,256	4,336	4,351	4,305
COSTS $		10,242,505	851,575	7,792,523	18,886,603	157,577	141,929	123,691	140,945
WELLS		124	22	76	222				
FOOTAGE	5,000 - 7,499	828,297	145,060	460,730	1,434,087	6,680	6,594	6,062	6,460
COSTS $		34,330,931	5,177,791	15,643,208	55,151,930	276,862	235,354	205,832	248,432
WELLS		155	31	27	213				
FOOTAGE	7,500 - 9,999	1,299,283	275,120	236,617	1,811,020	8,382	8,875	8,764	8,502
COSTS $		61,455,291	8,465,729	9,826,635	79,747,655	396,486	273,088	363,949	374,402
WELLS		19	3	10	32				
FOOTAGE	10,000 - 12,499	206,467	34,011	106,971	347,449	10,867	11,337	10,697	10,858
COSTS $		14,783,679	2,999,741	6,285,174	24,068,594	778,088	999,914	628,517	752,144
WELLS		2	1	--	3				
FOOTAGE	12,500 - 14,999	26,245	14,695	--	40,940	13,123	14,695	--	13,647
COSTS $		2,391,759	2,455,735	--	4,847,494	1,195,880	2,455,735	--	1,615,831
WELLS		--	--	--	--				
FOOTAGE	15,000 - 17,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		520	70	271	861				
TOTAL FOOTAGE		2,991,484	509,045	1,283,634	4,784,163	5,753	7,272	4,737	5,557
TOTAL COSTS $		139,116,897	20,437,988	45,874,326	205,429,211	267,533	291,971	169,278	238,594

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

TEXAS RRC DIST. 8

Table 44

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		2	--	2	4				
FOOTAGE	0 - 1,249	1,985	--	1,917	3,902	993	--	959	976
COSTS $		364,312	--	353,903	718,215	182,156	--	176,952	179,554
WELLS		100	2	25	127				
FOOTAGE	1,250 - 2,499	170,945	4,100	45,277	220,322	1,709	2,050	1,811	1,735
COSTS $		19,945,122	172,970	3,094,838	23,212,930	199,451	86,485	123,794	182,779
WELLS		307	2	42	351				
FOOTAGE	2,500 - 3,749	997,124	6,461	137,583	1,141,168	3,248	3,231	3,276	3,251
COSTS $		56,671,262	336,214	7,752,947	64,760,423	184,597	168,107	184,594	184,503
WELLS		228	4	34	266				
FOOTAGE	3,750 - 4,999	1,039,053	17,057	152,009	1,208,119	4,557	4,264	4,471	4,542
COSTS $		45,052,980	1,046,057	6,791,558	52,890,595	197,601	261,514	199,752	198,837
WELLS		215	7	39	261				
FOOTAGE	5,000 - 7,499	1,374,013	42,008	241,372	1,657,393	6,391	6,001	6,189	6,350
COSTS $		62,229,161	2,694,232	11,878,190	76,801,583	289,438	384,890	304,569	294,259
WELLS		365	6	62	433				
FOOTAGE	7,500 - 9,999	3,312,237	49,027	546,881	3,908,145	9,075	8,171	8,821	9,026
COSTS $		165,854,091	3,946,637	30,162,913	199,963,641	454,395	657,773	486,499	461,810
WELLS		93	2	47	142				
FOOTAGE	10,000 - 12,499	1,036,035	22,471	526,171	1,584,677	11,140	11,236	11,195	11,160
COSTS $		72,610,314	2,054,864	39,262,272	113,927,450	780,756	1,027,432	835,368	802,306
WELLS		14	1	7	22				
FOOTAGE	12,500 - 14,999	183,863	14,650	92,641	291,154	13,133	14,650	13,234	13,234
COSTS $		14,458,323	3,374,567	10,098,163	27,931,053	1,032,737	3,374,567	1,442,595	1,269,593
WELLS		--	2	5	7				
FOOTAGE	15,000 - 17,499	--	31,753	80,698	112,451	--	15,877	16,140	16,064
COSTS $		--	23,218,010	16,609,884	39,827,894	--	11,609,005	3,321,977	5,689,699
WELLS		--	8	4	12				
FOOTAGE	17,500 - 19,999	--	145,682	75,039	220,721	--	18,210	18,760	18,393
COSTS $		--	48,188,809	23,539,162	71,727,971	--	6,023,601	5,884,791	5,977,331
WELLS		--	2	1	3				
FOOTAGE	20,000 & OVER	--	48,297	22,000	70,297	--	24,149	22,000	23,432
COSTS $		--	29,228,528	5,810,336	35,038,864	--	14,614,264	5,810,336	11,679,621
TOTAL WELLS		1,324	36	268	1,628				
TOTAL FOOTAGE		8,115,255	381,506	1,921,588	10,418,349	6,129	10,597	7,170	6,399
TOTAL COSTS $		437,185,565	114,260,888	155,354,166	706,800,619	330,201	3,173,914	579,680	434,153

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

TEXAS RRC DIST. 8A

Table 45

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		--	--	3	3				
FOOTAGE	0 - 1,249	--	--	887	887	--	--	296	296
COSTS $		--	--	341,300	341,300	--	--	113,767	113,767
WELLS		12	--	3	15				
FOOTAGE	1,250 - 2,499	21,900	--	5,672	27,572	1,825	--	1,891	1,838
COSTS $		708,266	--	383,232	1,091,498	59,022	--	127,744	72,767
WELLS		49	--	18	67				
FOOTAGE	2,500 - 3,749	145,526	--	57,125	202,651	2,970	--	3,174	3,025
COSTS $		6,371,690	--	1,673,836	8,045,526	130,034	--	92,991	120,082
WELLS		129	2	49	180				
FOOTAGE	3,750 - 4,999	603,923	9,734	207,733	821,390	4,682	4,867	4,239	4,563
COSTS $		20,692,527	461,734	5,474,375	26,628,636	160,407	230,867	111,722	147,937
WELLS		258	2	73	333				
FOOTAGE	5,000 - 7,499	1,611,343	10,705	441,924	2,063,972	6,246	5,353	6,054	6,198
COSTS $		75,609,059	510,400	13,720,314	89,839,773	293,058	255,200	187,950	269,789
WELLS		114	--	59	173				
FOOTAGE	7,500 - 9,999	934,563	--	505,157	1,439,720	8,198	--	8,562	8,322
COSTS $		48,572,866	--	17,118,945	65,691,811	426,078	--	290,152	379,721
WELLS		26	--	19	45				
FOOTAGE	10,000 - 12,499	293,073	--	214,540	507,613	11,272	--	11,292	11,280
COSTS $		19,744,238	--	10,342,595	30,086,833	759,394	--	544,347	668,596
WELLS		7	--	15	22				
FOOTAGE	12,500 - 14,999	90,707	--	194,073	284,780	12,958	--	12,938	12,945
COSTS $		6,470,591	--	9,726,133	16,196,724	924,370	--	648,409	736,215
WELLS		--	--	--	--				
FOOTAGE	15,000 - 17,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		595	4	239	838				
TOTAL FOOTAGE		3,701,035	20,439	1,627,111	5,348,585	6,220	5,110	6,808	6,383
TOTAL COSTS $		178,169,237	972,134	58,780,730	237,922,101	299,444	243,034	245,944	283,917

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

TEXAS RRC DIST. 9

Table 46

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		241	8	128	377				
FOOTAGE	0 - 1,249	192,350	4,872	107,213	304,435	798	609	838	808
COSTS $		4,451,077	52,718	1,001,553	5,505,348	18,469	6,590	7,825	14,603
WELLS		301	2	217	520				
FOOTAGE	1,250 - 2,499	521,358	3,596	384,049	909,003	1,732	1,798	1,770	1,748
COSTS $		13,123,089	51,163	4,236,228	17,410,480	43,598	25,582	19,522	33,482
WELLS		56	2	54	112				
FOOTAGE	2,500 - 3,749	173,050	6,240	166,130	345,420	3,090	3,120	3,076	3,084
COSTS $		4,658,548	147,853	2,510,817	7,317,218	83,188	73,927	46,497	65,332
WELLS		149	12	102	263				
FOOTAGE	3,750 - 4,999	662,424	54,355	459,735	1,176,514	4,446	4,530	4,507	4,473
COSTS $		19,090,038	1,682,127	7,928,937	28,701,102	128,121	140,177	77,735	109,130
WELLS		166	73	139	378				
FOOTAGE	5,000 - 7,499	957,817	447,301	804,026	2,209,144	5,770	6,127	5,784	5,844
COSTS $		39,809,927	19,834,184	16,437,080	76,081,191	239,819	271,701	118,252	201,273
WELLS		34	8	52	94				
FOOTAGE	7,500 - 9,999	283,285	64,969	445,385	793,639	8,332	8,121	8,565	8,443
COSTS $		16,539,461	4,984,955	13,986,058	35,510,474	486,455	623,119	268,963	377,771
WELLS		--	--	4	4				
FOOTAGE	10,000 - 12,499	--	--	43,620	43,620	--	--	10,905	10,905
COSTS $		--	--	2,097,695	2,097,695	--	--	524,424	524,424
WELLS		--	--	1	1				
FOOTAGE	12,500 - 14,999	--	--	13,194	13,194	--	--	13,194	13,194
COSTS $		--	--	1,326,772	1,326,772	--	--	1,326,772	1,326,772
WELLS		--	--	1	1				
FOOTAGE	15,000 - 17,499	--	--	15,815	15,815	--	--	15,815	15,815
COSTS $		--	--	1,660,213	1,660,213	--	--	1,660,213	1,660,213
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		947	105	698	1,750				
TOTAL FOOTAGE		2,790,284	581,333	2,439,167	5,810,784	2,946	5,537	3,495	3,320
TOTAL COSTS $		97,672,140	26,753,000	51,185,353	175,610,493	103,138	254,790	73,331	100,349

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

TEXAS RRC DIST. 10

Table 47

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS	0 - 1,249	--	--	--	--	--	--	--	--
FOOTAGE		--	--	--	--	--	--	--	--
COSTS $		--	--	--	--				
WELLS	1,250 - 2,499	30	3	4	37	2,298	1,956	1,918	2,229
FOOTAGE		68,949	5,869	7,670	82,488	113,937	60,574	127,230	111,047
COSTS $		3,418,101	181,721	508,918	4,108,740				
WELLS	2,500 - 3,749	129	15	10	154	3,293	3,336	3,319	3,299
FOOTAGE		424,853	50,041	33,187	508,081	154,425	153,829	157,750	154,583
COSTS $		19,920,806	2,307,438	1,577,499	23,805,743				
WELLS	3,750 - 4,999	6	1	2	9	3,813	4,600	4,500	4,053
FOOTAGE		22,878	4,600	9,000	36,478	199,655	211,986	208,548	203,001
COSTS $		1,197,927	211,986	417,096	1,827,009				
WELLS	5,000 - 7,499	33	9	21	63	6,756	6,657	6,681	6,717
FOOTAGE		222,940	59,915	140,311	423,166	330,741	326,769	184,566	281,449
COSTS $		10,914,458	2,940,922	3,875,878	17,731,258				
WELLS	7,500 - 9,999	30	23	29	82	8,519	8,786	8,662	8,644
FOOTAGE		255,582	202,070	251,195	708,847	423,824	458,198	312,582	394,124
COSTS $		12,714,723	10,538,555	9,064,869	32,318,147				
WELLS	10,000 - 12,499	13	18	17	48	11,018	10,946	10,989	10,981
FOOTAGE		143,232	197,034	186,812	527,078	779,867	721,112	410,281	626,939
COSTS $		10,138,275	12,980,022	6,974,775	30,093,072				
WELLS	12,500 - 14,999	1	14	8	23	12,505	13,270	14,125	13,534
FOOTAGE		12,505	185,777	113,000	311,282	989,780	1,233,509	819,755	1,078,997
COSTS $		989,780	17,269,120	6,558,041	24,816,941				
WELLS	15,000 - 17,499	--	3	3	6	--	16,308	15,996	16,152
FOOTAGE		--	48,923	47,988	96,911	--	2,036,899	1,087,789	1,562,344
COSTS $		--	6,110,698	3,263,368	9,374,066				
WELLS	17,500 - 19,999	--	1	--	1	--	17,700	--	17,700
FOOTAGE		--	17,700	--	17,700	--	2,860,087	--	2,860,087
COSTS $		--	2,860,087	--	2,860,087				
WELLS	20,000 & OVER	--	--	1	1	--	--	23,973	23,973
FOOTAGE		--	--	23,973	23,973	--	--	9,443,143	9,443,143
COSTS $		--	--	9,443,143	9,443,143				
TOTAL WELLS		242	87	95	424	4,756	8,873	8,559	6,453
TOTAL FOOTAGE		1,150,939	771,929	813,136	2,736,004	245,017	636,788	438,775	368,817
TOTAL COSTS $		59,294,070	55,400,549	41,683,587	156,378,206				

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

TEXAS - OFFSHORE

Table 48

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		--	--	--	--				
FOOTAGE	0 - 1,249	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	1,250 - 2,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	2,500 - 3,749	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	2	2				
FOOTAGE	3,750 - 4,999	--	--	9,300	9,300	--	--	4,650	4,650
COSTS $		--	--	2,101,840	2,101,840	--	--	1,050,920	1,050,920
WELLS		1	3	10	14				
FOOTAGE	5,000 - 7,499	7,440	19,391	63,636	90,467	7,440	6,464	6,364	6,462
COSTS $		2,189,252	5,911,969	9,989,264	18,090,485	2,189,252	1,970,656	998,926	1,292,178
WELLS		5	17	18	40				
FOOTAGE	7,500 - 9,999	40,750	155,270	157,509	353,529	8,150	9,134	8,751	8,838
COSTS $		13,641,882	32,780,199	27,994,059	74,416,140	2,728,377	1,928,247	1,555,226	1,860,404
WELLS		1	16	7	24				
FOOTAGE	10,000 - 12,499	10,575	177,984	74,969	263,528	10,575	11,124	10,710	10,980
COSTS $		2,291,851	47,654,264	15,920,147	65,866,262	2,291,851	2,978,392	2,274,307	2,744,428
WELLS		--	24	14	38				
FOOTAGE	12,500 - 14,999	--	327,052	190,649	517,701	--	13,627	13,618	13,624
COSTS $		--	206,226,818	62,962,436	269,189,254	--	8,592,784	4,497,317	7,083,928
WELLS		--	6	5	11				
FOOTAGE	15,000 - 17,499	--	95,301	85,160	180,461	--	15,884	17,032	16,406
COSTS $		--	66,646,473	71,004,699	137,651,172	--	11,107,746	14,200,940	12,513,743
WELLS		--	3	2	5				
FOOTAGE	17,500 - 19,999	--	52,625	35,767	88,392	--	17,542	17,884	17,678
COSTS $		--	43,492,853	19,285,922	62,778,775	--	14,497,618	9,642,961	12,555,755
WELLS		--	--	1	1				
FOOTAGE	20,000 & OVER	--	--	24,938	24,938	--	--	24,938	24,938
COSTS $		--	--	32,715,342	32,715,342	--	--	32,715,343	32,715,343
TOTAL WELLS		7	69	59	135				
TOTAL FOOTAGE		58,765	827,623	641,928	1,528,316	8,395	11,995	10,880	11,321
TOTAL COSTS $		18,122,985	402,712,576	241,973,709	662,809,270	2,588,998	5,836,414	4,101,249	4,909,699

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

Table 49

UTAH

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		3	2	7	12				
FOOTAGE	0 - 1,249	1,452	2,095	4,562	8,109	484	1,048	652	676
COSTS $		52,933	57,479	149,250	259,662	17,644	28,740	21,321	21,639
WELLS		1	2	4	7				
FOOTAGE	1,250 - 2,499	1,900	4,096	7,913	13,909	1,900	2,048	1,978	1,987
COSTS $		75,952	116,662	293,611	486,225	75,952	58,331	73,403	69,461
WELLS		--	2	--	2				
FOOTAGE	2,500 - 3,749	--	6,710	--	6,710	--	3,355	--	3,355
COSTS $		--	394,045	--	394,045	--	197,023	--	197,023
WELLS		1	4	3	8				
FOOTAGE	3,750 - 4,999	3,935	17,594	14,162	35,691	3,935	4,399	4,721	4,461
COSTS $		212,615	848,863	595,925	1,657,403	212,615	212,216	198,642	207,175
WELLS		60	33	24	117				
FOOTAGE	5,000 - 7,499	356,405	208,942	143,792	709,139	5,940	6,332	5,991	6,061
COSTS $		25,215,785	14,523,163	7,188,542	46,927,490	420,263	440,096	299,523	401,090
WELLS		3	4	3	10				
FOOTAGE	7,500 - 9,999	28,950	33,538	24,409	86,897	9,650	8,385	8,136	8,690
COSTS $		2,565,549	4,038,802	1,537,027	8,141,378	855,183	1,009,701	512,342	814,138
WELLS		3	2	4	9				
FOOTAGE	10,000 - 12,499	32,981	22,193	44,455	99,629	10,994	11,097	11,114	11,070
COSTS $		3,272,045	2,888,168	3,244,766	9,404,979	1,090,682	1,444,084	811,192	1,044,998
WELLS		18	1	--	19				
FOOTAGE	12,500 - 14,999	246,182	14,636	--	260,818	13,677	14,636	--	13,727
COSTS $		31,044,585	4,335,321	--	35,379,906	1,724,699	4,335,321	--	1,862,100
WELLS		9	1	2	12				
FOOTAGE	15,000 - 17,499	146,506	15,593	31,664	193,763	16,278	15,593	15,832	16,147
COSTS $		24,512,585	5,454,727	10,619,514	40,586,826	2,723,621	5,454,727	5,309,757	3,382,236
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--				
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		98	51	47	196				
TOTAL FOOTAGE		818,311	325,397	270,957	1,414,665	8,350	6,380	5,765	7,218
TOTAL COSTS $		86,952,049	32,657,230	23,628,635	143,237,914	887,266	640,338	502,737	730,806

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

WYOMING

Table 50

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		66	1	20	87				
FOOTAGE	0 - 1,249	47,163	1,000	11,045	59,208	715	1,000	552	681
COSTS $		1,405,976	38,070	636,995	2,081,041	21,303	38,070	31,850	23,920
WELLS		35	2	9	46				
FOOTAGE	1,250 - 2,499	55,856	3,547	18,368	77,771	1,596	1,774	2,041	1,691
COSTS $		3,927,214	166,242	1,177,173	5,270,629	112,206	83,121	130,797	114,579
WELLS		16	1	18	35				
FOOTAGE	2,500 - 3,749	48,466	3,100	58,222	109,788	3,029	3,100	3,235	3,137
COSTS $		3,576,125	192,060	2,973,802	6,741,987	223,508	192,060	165,211	192,628
WELLS		17	1	14	32				
FOOTAGE	3,750 - 4,999	76,052	3,900	59,627	139,579	4,474	3,900	4,259	4,362
COSTS $		6,261,044	182,428	3,337,089	9,780,561	368,297	182,428	238,364	305,643
WELLS		65	2	95	162				
FOOTAGE	5,000 - 7,499	420,926	12,500	629,901	1,063,327	6,476	6,250	6,631	6,564
COSTS $		25,376,370	1,247,362	23,464,119	50,087,851	390,406	623,681	246,991	309,184
WELLS		76	13	164	253				
FOOTAGE	7,500 - 9,999	657,447	116,433	1,420,736	2,194,616	8,651	8,956	8,663	8,674
COSTS $		35,699,715	9,399,221	39,140,201	84,239,137	469,733	723,017	238,660	332,961
WELLS		43	17	67	127				
FOOTAGE	10,000 - 12,499	473,520	182,061	718,686	1,374,267	11,012	10,709	10,727	10,821
COSTS $		31,068,280	15,661,683	36,362,664	83,092,627	722,518	921,276	542,726	654,273
WELLS		18	1	24	43				
FOOTAGE	12,500 - 14,999	245,718	12,525	329,045	587,288	13,651	12,525	13,710	13,658
COSTS $		28,067,273	1,229,784	30,905,093	60,202,150	1,559,293	1,229,784	1,287,712	1,400,050
WELLS		4	10	7	21				
FOOTAGE	15,000 - 17,499	62,176	160,420	112,276	334,872	15,544	16,042	16,039	15,946
COSTS $		10,504,435	91,533,213	16,044,446	118,082,094	2,626,109	9,153,321	2,292,064	5,622,957
WELLS		--	--	1	1				
FOOTAGE	17,500 - 19,999	--	--	18,439	18,439	--	--	18,439	18,439
COSTS $		--	--	13,589,850	13,589,850	--	--	13,589,850	13,589,850
WELLS		--	--	1	1				
FOOTAGE	20,000 & OVER	--	--	20,161	20,161	--	--	20,161	20,161
COSTS $		--	--	12,643,894	12,643,894	--	--	12,643,894	12,643,894
TOTAL WELLS		340	48	420	808				
TOTAL FOOTAGE		2,087,324	495,486	3,396,506	5,979,316	6,139	10,323	8,087	7,400
TOTAL COSTS $		145 886,432	119,650,063	180,275,326	445,811,821	429,078	2,492,710	429,227	551,747

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

Table 51

APPALACHIAN *

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		89	59	29	177				
FOOTAGE	0 - 1,249	77,451	52,663	18,413	148,527	870	893	635	839
COSTS $		2,781,233	3,290,569	502,255	6,574,057	31,250	55,772	17,319	37,142
WELLS		208	221	22	451				
FOOTAGE	1,250 - 2,499	397,121	426,990	43,138	867,249	1,909	1,932	1,961	1,923
COSTS $		10,787,617	21,143,394	1,306,122	33,237,133	51,864	95,671	59,369	73,697
WELLS		374	668	58	1,100				
FOOTAGE	2,500 - 3,749	1,211,450	2,230,530	186,672	3,628,652	3,239	3,339	3,218	3,299
COSTS $		35,636,352	77,860,389	4,252,858	117,749,599	95,284	116,557	73,325	107,045
WELLS		569	649	40	1,258				
FOOTAGE	3,750 - 4,999	2,424,698	2,779,561	164,371	5,368,630	4,261	4,283	4,109	4,268
COSTS $		70,196,466	91,687,354	3,622,156	165,505,976	123,368	141,275	90,554	131,563
WELLS		184	450	12	646				
FOOTAGE	5,000 - 7,499	1,026,210	2,532,800	70,106	3,629,116	5,577	5,628	5,842	5,618
COSTS $		26,689,472	80,270,202	2,305,528	109,265,202	145,051	178,378	192,127	169,141
WELLS		--	9	4	13				
FOOTAGE	7,500 - 9,999	--	74,760	32,891	107,651	--	8,307	8,223	8,281
COSTS $		--	3,182,508	3,719,011	6,901,519	--	353,612	929,753	530,886
WELLS		--	--	--	--				
FOOTAGE	10,000 - 12,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	12,500 - 14,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	15,000 - 17,499	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	17,500 - 19,999	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	--	--				
FOOTAGE	20,000 & OVER	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
TOTAL WELLS		1,424	2,056	165	3,645				
TOTAL FOOTAGE		5,136,930	8,097,304	515,591	13,749,825	3,607	3,938	3,125	3,772
TOTAL COSTS $		146,091,140	277,434,416	15,707,930	439,233,486	102,592	134,939	95,200	120,503

* Includes New York, Ohio, Pennsylvania, and West Virginia.

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

OFFSHORE FED - TOTAL *

Table 52

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		--	--	--	--				
FOOTAGE	0 - 1,249	--	--	--	--	--	--	--	--
COSTS $		--	--	--	--	--	--	--	--
WELLS		--	--	1	1				
FOOTAGE	1,250 - 2,499	--	--	2,468	2,468	--	--	2,468	2,468
COSTS $		--	--	3,161,338	3,161,338	--	--	3,161,338	3,161,338
WELLS		--	--	1	1				
FOOTAGE	2,500 - 3,749	--	--	3,700	3,700	--	--	3,700	3,700
COSTS $		--	--	612,927	612,927	--	--	612,927	612,927
WELLS		--	2	2	4				
FOOTAGE	3,750 - 4,999	--	9,271	9,147	18,418	--	4,636	4,574	4,605
COSTS $		--	1,657,939	4,841,700	6,499,639	--	828,970	2,420,850	1,624,910
WELLS		6	3	5	14				
FOOTAGE	5,000 - 7,499	37,649	17,838	31,287	86,774	6,275	5,946	6,257	6,198
COSTS $		21,389,576	5,876,697	28,107,822	55,374,095	3,564,929	1,958,899	5,621,565	3,955,293
WELLS		8	3	21	32				
FOOTAGE	7,500 - 9,999	73,558	25,563	183,924	283,045	9,195	8,521	8,758	8,845
COSTS $		61,124,887	13,941,660	169,385,456	244,452,003	7,640,611	4,647,220	8,065,974	7,639,125
WELLS		21	2	17	40				
FOOTAGE	10,000 - 12,499	243,917	24,361	193,563	461,841	11,615	12,181	11,386	11,546
COSTS $		170,295,837	21,486,550	115,751,421	307,533,808	8,109,326	10,743,275	6,808,907	7,688,345
WELLS		5	1	15	21				
FOOTAGE	12,500 - 14,999	68,977	12,729	208,163	289,869	13,795	12,729	13,878	13,803
COSTS $		44,810,818	8,630,177	130,604,657	184,045,652	8,962,164	8,630,177	8,706,977	8,764,079
WELLS		1	1	8	10				
FOOTAGE	15,000 - 17,499	17,143	16,743	125,808	159,694	17,143	16,743	15,726	15,969
COSTS $		9,466,053	12,464,819	77,610,289	99,541,161	9,466,053	12,464,819	9,701,286	9,954,116
WELLS		--	--	2	2				
FOOTAGE	17,500 - 19,999	--	--	37,139	37,139	--	--	18,570	18,570
COSTS $		--	--	20,918,701	20,918,701	--	--	10,459,351	10,459,351
WELLS		--	1	6	7				
FOOTAGE	20,000 & OVER	--	21,850	127,813	149,663	--	21,850	21,302	21,380
COSTS $		--	16,956,258	79,515,624	96,471,882	--	16,956,259	13,252,604	13,781,697
TOTAL WELLS		41	13	78	132				
TOTAL FOOTAGE		441,244	128,355	923,012	1,492,611	10,762	9,873	11,833	11,308
TOTAL COSTS $		307,087,171	81,014,100	630,509,935	1,018,611,206	7,489,931	6,231,854	8,083,461	7,716,752

* Includes Offshore Federal Waters-Alaska, and Offshore Federal Waters-Pacific Coast, which are not shown separately.

ESTIMATED COSTS OF DRILLING AND EQUIPPING WELLS, BY DEPTH INTERVALS - 1986

OFFSHORE FED. - GULF NORTH

Table 53

DEPTH INTERVAL (FEET)		TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
0 - 1,249	WELLS	--	--	--	--				
	FOOTAGE	--	--	--	--				
	COSTS $	--	--	--	--	--	--	--	--
						--	--	--	--
1,250 - 2,499	WELLS	--	--	1	1				
	FOOTAGE	--	--	2,468	2,468				
	COSTS $	--	--	3,161,338	3,161,338	--	--	2,468	2,468
						--	--	3,161,338	3,161,338
2,500 - 3,749	WELLS	--	--	1	1				
	FOOTAGE	--	--	3,700	3,700				
	COSTS $	--	--	612,927	612,927	--	--	3,700	3,700
						--	--	612,927	612,927
3,750 - 4,999	WELLS	--	2	2	4				
	FOOTAGE	--	9,271	9,147	18,418				
	COSTS $	--	1,657,939	4,841,700	6,499,639	--	4,636	4,574	4,605
						--	828,970	2,420,850	1,624,910
5,000 - 7,499	WELLS	--	3	1	4				
	FOOTAGE	--	17,838	7,325	25,163				
	COSTS $	--	5,876,697	6,516,007	12,392,704	--	5,946	7,325	6,291
						--	1,958,899	6,516,007	3,098,176
7,500 - 9,999	WELLS	7	3	18	28				
	FOOTAGE	63,771	25,563	157,765	247,099				
	COSTS $	57,500,001	13,941,660	130,896,440	202,338,101	9,110	8,521	8,765	8,825
						8,214,286	4,647,220	7,272,025	7,226,361
10,000 - 12,499	WELLS	21	2	16	39				
	FOOTAGE	243,917	24,361	181,763	450,041				
	COSTS $	170,295,837	21,486,550	97,370,421	289,152,808	11,615	12,181	11,360	11,540
						8,109,326	10,743,275	6,085,652	7,414,175
12,500 - 14,999	WELLS	5	1	15	21				
	FOOTAGE	68,977	12,729	208,163	289,869				
	COSTS $	44,810,818	8,630,177	130,604,657	184,045,652	13,795	12,729	13,878	13,803
						8,962,164	8,630,177	8,706,977	8,764,079
15,000 - 17,499	WELLS	1	1	8	10				
	FOOTAGE	17,143	16,743	125,808	159,694				
	COSTS $	9,466,053	12,464,819	77,610,289	99,541,161	17,143	16,743	15,726	15,969
						9,466,053	12,464,819	9,701,286	9,954,116
17,500 - 19,999	WELLS	--	--	2	2				
	FOOTAGE	--	--	37,139	37,139				
	COSTS $	--	--	20,918,701	20,918,701	--	--	18,570	18,570
						--	--	10,459,351	10,459,351
20,000 & OVER	WELLS	--	1	6	7				
	FOOTAGE	--	21,850	127,813	149,663				
	COSTS $	--	16,956,258	79,515,624	96,471,882	--	21,850	21,302	21,380
						--	16,956,259	13,252,604	13,781,697
TOTAL WELLS		34	13	70	117				
TOTAL FOOTAGE		393,808	128,355	861,091	1,383,254				
TOTAL COSTS $		282,072,709	81,014,100	552,048,104	915,134,913	11,583	9,873	12,301	11,823
						8,296,256	6,231,854	7,886,402	7,821,666

APPENDIXES

PPENDIX A

JOINT ASSOCIATION SURVEY ON DRILLING COSTS

CONFIDENTIAL WELLS DRILLED, FOOTAGE, AND COST IN THE U.S. **CONFIDENTIAL**

PAGE

OPERATOR NAME	WELL NUMBER - LEASE NAME	STATE	SH	WELL IDENTIFICATION NUMBER
ABC OIL COMPANY	#1 J.C. KANE	CA	ON	04-029-23459

TYPE	OIL ZONES	GAS ZONES	DEPTH	COMPLETION DATE	SECTION	TWP	RANGE	CDS	X COORD or LATITUDE	Y COORD or LONGITUDE
EXP-OIL	1	0	3456	08/86	031	15-N	053-E			

COUNTY NAME	LOCATION	TOTAL COST
KERN	958 FNL 388 FWL	

OPERATOR NAME	WELL NUMBER - LEASE NAME	STATE	SH	WELL IDENTIFICATION NUMBER
ABC OIL COMPANY	#3 HAYES	OK	ON	35-053-10432

TYPE	OIL ZONES	GAS ZONES	DEPTH	COMPLETION DATE	SECTION	TWP	RANGE	CDS	X COORD or LATITUDE	Y COORD or LONGITUDE
DEV-GAS	0	1	2335	04/86	017	19-N	044-E			

COUNTY NAME	LOCATION	TOTAL COST
GRANT	2130 FSL 1560 FWL	

OPERATOR NAME	WELL NUMBER - LEASE NAME	STATE	SH	WELL IDENTIFICATION NUMBER
ABC OIL COMPANY	B-3 OCS-G-3232	LA	OF	17-710-22106

TYPE	OIL ZONES	GAS ZONES	DEPTH	COMPLETION DATE	SECTION	TWP	RANGE	CDS	X COORD or LATITUDE	Y COORD or LONGITUDE
DEV-DRY	0	0	8724	11/86						

COUNTY NAME	LOCATION	TOTAL COST
EUGENE ISLAND SOUTH	BLK 361	

OPERATOR NAME	WELL NUMBER - LEASE NAME	STATE	SH	WELL IDENTIFICATION NUMBER

TYPE	OIL ZONES	GAS ZONES	DEPTH	COMPLETION DATE	SECTION	TWP	RANGE	CDS	X COORD or LATITUDE	Y COORD or LONGITUDE

COUNTY NAME	LOCATION	TOTAL COST

OPERATOR NAME	WELL NUMBER - LEASE NAME	STATE	SH	WELL IDENTIFICATION NUMBER

TYPE	OIL ZONES	GAS ZONES	DEPTH	COMPLETION DATE	SECTION	TWP	RANGE	CDS	X COORD or LATITUDE	Y COORD or LONGITUDE

COUNTY NAME	LOCATION	TOTAL COST

OPERATOR NAME	WELL NUMBER - LEASE NAME	STATE	SH	WELL IDENTIFICATION NUMBER

TYPE	OIL ZONES	GAS ZONES	DEPTH	COMPLETION DATE	SECTION	TWP	RANGE	CDS	X COORD or LATITUDE	Y COORD or LONGITUDE

COUNTY NAME	LOCATION	TOTAL COST

OPERATOR NAME	WELL NUMBER - LEASE NAME	STATE	SH	WELL IDENTIFICATION NUMBER

TYPE	OIL ZONES	GAS ZONES	DEPTH	COMPLETION DATE	SECTION	TWP	RANGE	CDS	X COORD or LATITUDE	Y COORD or LONGITUDE

COUNTY NAME	LOCATION	TOTAL COST

INDIVIDUAL SUBMITTING REPORT _____

TELEPHONE NUMBER AC _____ _____

INSTRUCTIONS AND DEFINITIONS FOR DRILLING COSTS

1. **WELLS TO BE REPORTED.** Report each domestic well completed by you as OPERATOR (whether actually drilled by you or drilled for you by a contractor), in the survey year. Report each well completed by you as operator regardless of the size of your working interest in the well. Do not report wells drilled by others in which you may have had only a part of a working interest regardless of the size of such interest. Do not report wells started in the survey year or in prior years, but not completed as of December 31 of the survey year. Do not report wells reentered for completion at shallower depths, old wells drilled deeper, old wells worked over, stratigraphic tests, core test, or service wells (including input wells).

2. **SHORE.** Enter "OFF" if well is located offshore; enter "ON" if it is onshore. An offshore well is one which is bottomed at, or produces from, a point which lies seaward of the coastline. If a state agency uses a different basis for classifying onshore and offshore wells, the state classification should be used. In general, the term "coastline" means the line of ordinary low water along that portion of the coast which is in direct contact with the open sea or the line marking the seaward limit of inland waters. For the purposes of the JAS Cook Inlet (Alaska) is classified as "offshore".

3. **OP CODE.** Make no entry. The API will supply the operator code.

4. **WELL IDENTIFICATION NUMBER.** Enter the STATE DESIGNATED API NUMBER if it is available. Where states do not assign API well numbers, or if you do not know the number, leave this item blank.

5. **TYPE.** Insert the classification for each well reported as either an exploratory (EXP) or a development (DEV) well. Exploratory wells include new-field wildcats, new-pool wildcats, deeper-pool tests, shallower-pool tests, and outposts (extensions). Development wells include all wells drilled to produce oil and gas from pools discovered by previous drilling.

   Subclassify all wells as either oil, gas or dry holes, e.g. "EXP-OIL", "DEV-GAS", "EXP-DRY". An oil well is a well completed for the production of crude oil from at least one oil zone or reservoir. A gas well is one which can produce hydrocarbons existing initially in a gaseous phase in the reservoir. So-called gas condensate wells should be reported as gas wells. A dry hole is an exploratory or development well found to be incapable of producing either oil or gas in sufficient quantities to justify completion as an oil or gas well. The state regulatory classification should be used, if available; if not available, use a classification by company engineers.

   Count MULTIPLE COMPLETIONS as one well. (See Item 6 for definition.)

6. **OIL ZONES, GAS ZONES.** Enter the total number of separately producing oil zones and gas zones (reservoirs).

   As noted under Item 5, a multiple completion should be reported as one well. A multiple completion well is a well equipped to produce oil and/or gas separately from more than one reservoir. SUCH WELLS CONTAIN MULTIPLE STRINGS OF TUBING OR OTHER EQUIPMENT WHICH PERMIT PRODUCTION FROM THE VARIOUS COMPLETIONS TO BE MEASURED AND ACCOUNTED FOR SEPARATELY.

   Report a multiple completion well as an oil well if oil is produced from at least one of several zones, even though gas and gas condensate may be produced from one or more zones in the same well. Report a multiple completion well as a gas well if oil is not produced from any of the several zones.

   For a dry hole enter the word "DRY".

7. **DEPTH.** Report for each well the total feet of penetration measured down the well bore. Include all plugged back footage, but exclude bypassed footage resulting from remedial sidetrack drilling operations. For OFFSHORE WELLS drilled from a platform or a barge over water and the reference point is above water, the depth of the water is included in the total length of the well bore.

8. **COMPLETION DATE.** Enter the month and year of completion.

9. **SECTION, TWP, RANGE.** Enter location data if appropriate for area.

10. **COUNTY NAME AND LOCATION.** For each onshore well reported provide the county name, and for state and federal offshore waters provide pseudo-county names. Under location enter the designated block numbers for state and federal offshore wells and any other available information that would be helpful in identifying well locations.

11. **TOTAL COST.** Report the TOTAL cost (tangible and intangible) of each well completed by you as operator in the survey year (whether actually drilled by you or drilled for you by contractors). The TOTAL of such costs should be reported even though you as operator had only a part of a working interest in the well.

    Do not report costs of wells drilled by others in which you had a working interest regardless of the size of such interest. The costs to be reported are those associated with wells which are completed during the survey year and the dollar amount to be reported is the accumulated cost of such wells from the time locations were made until the wells were completed as productive wells or abandoned after drilling was terminated because they were non-productive.

    PLEASE ROUND OFF TOTAL COSTS TO THE NEAREST DOLLAR.

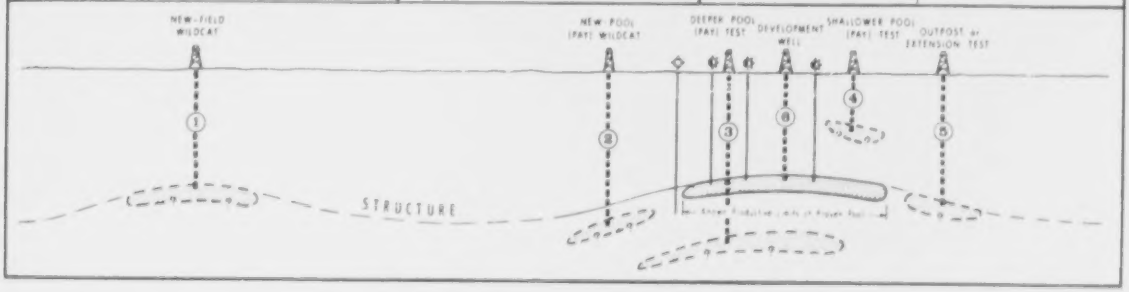
    In general, the elements contributing to reported cost are the expenditures for drilling dry holes and productive wells and equipping new productive wells through the "Christmas tree" installation. More specifically, these cost elements are the costs of labor, materials, supplies, water, fuels, power, and direct overhead (i.e., field, district, and regional), for such operations as site preparation, road building, erecting and dismantling derricks and drilling rigs, drilling hole, running and cementing casing, hauling materials, etc. Include the total cost of water, if purchased, or cost of water well, if drilled and chargeable to oil or gas well drilling operations. Well costs also include machinery and tool charges and rentals, and depreciation charges, where appropriate, for rigs and other equipment and facilities which will be used in drilling more than one well. Deduct the condition value of materials salvaged after use where appropriate.

    Do not report the cost of lease equipment such as artificial lift equipment and downhole lift equipment, flow lines, flow tanks, separators, etc., that are required for production. Do not reduce the costs by test well, bottom hole, or dry hole contributions.

    For OFFSHORE WELLS, include costs on fixed platforms and islands. Where facilities serve more than one well, the costs should be allocated to each well on the basis of the operator's best current estimate of the ultimate number of wells that will use the facility. Also, include cost expirations (depreciation or amortization) for company-owned mobile platforms, barges, and tenders.

AAPG and API Classification of Wells

OBJECTIVE OF DRILLING				INITIAL CLASSIFICATION ◇ WHEN DRILLING IS STARTED	FINAL CLASSIFICATION AFTER COMPLETION OR ABANDONMENT			
					SUCCESSFUL ● ◎ ◐		UNSUCCESSFUL ◇	
Drilling for a **new field** on a structure or in an environment never before productive				1. NEW-FIELD WILDCAT	NEW-FIELD DISCOVERY WILDCAT		DRY NEW-FIELD WILDCAT	
Drilling for a **new pool** on a structure or in a geological environment already productive	NEW POOL TESTS	Drilling **outside limits** of a proved area of pool		2. NEW-POOL (PAY) WILDCAT	NEW-POOL DISCOVERY WELLS (Sometimes extension wells)	NEW-POOL DISCOVERY WILDCAT (Sometimes an extension well)	DRY NEW-POOL TESTS	DRY NEW POOL WILDCAT
		Drilling **inside limits** of proved area of pool	For a **new pool below** deepest proven pool	3. DEEPER POOL (PAY) TEST		DEEPER POOL DISCOVERY WELL		DRY DEEPER POOL TEST
			For a **new pool above** deepest proven pool	4. SHALLOWER POOL (PAY) TEST		SHALLOWER POOL DISCOVERY WELL		DRY SHALLOWER POOL TEST
Drilling for long **extension** of a partly developed pool				5. OUTPOST or EXTENSION TEST	EXTENSION WELL (Sometimes a new-pool discovery well)		DRY OUTPOST OR DRY EXTENSION TEST	
Drilling to exploit or **develop** a hydrocarbon accumulation discovered by previous drilling				6. DEVELOPMENT WELL	DEVELOPMENT WELL		DRY DEVELOPMENT WELL	



LAHEE CLASSIFICATION OF WELLS, AS APPLIED BY CSD

Tests drilled with the intent of being completed as hydrocarbon producers if found

NEW FIELD WILDCAT. A new field wildcat is located far from producing pools, and on a structure which has not produced before. In regions where local structure has little or no control on accumulation, these holes are generally at least 2 miles from the nearest productive area. Distance, however, is not the determining factor. The classification is based on the degree of risk assumed by the operator, and his intention to test a structure or stratigraphic condition not previously proved productive.

NEW-POOL (PAY) WILDCAT. A new-pool wildcat is located to explore for new pools on a structure already producing, but off to one side of the presently producing area. In some regions where local structure is almost negligible as a control, exploration holes of this group may be called "near wildcats." Such will usually be less than 2 miles from the nearest productive area. Sometimes a new-pool wildcat may extend a pool already partly developed; if so its final classification is an Extension.

DEEPER-POOL (PAY) TEST. A deeper-pool test is an exploratory hole located within the productive area of a pool, or pools, already partly or wholly developed. It is drilled below the deepest such pool penetrated by it to explore for deeper unknown prospects. Sometimes such a hole extends a deeper pool which has been partly developed in another part of the field.

SHALLOWER-POOL (PAY) TEST. A shallower-pool test is exploratory only if drilled in search of some new productive reservoir, unknown but possibly suspected from data secured from other wells. The test must be located within the productive area of a pool, or pools, previously developed. Sometimes such a test extends a shallower-pool partly developed elsewhere in the same field.

OUTPOST OR EXTENSION TEST. An outpost is located and drilled with the expectation of extending for a considerable distance the productive area of a partly developed pool. It is usually two or more locations distant from the nearest productive area. Sometimes an outpost discovers a new pool.

DEVELOPMENT WELL. A well drilled to exploit a hydrocarbon accumulation discovered by previous drilling.

Tests drilled without the intent of being completed for hydrocarbon production

STRATIGRAPHIC TEST. A drilling effort, geologically directed, to obtain information pertaining to a specific earth condition that might lead toward a possible accumulation of hydrocarbon. It must be drilled without the intention of being completed for hydrocarbon production. This classification includes tests identified as core tests by some operators.

SERVICE WELL. A well that is either drilled or completed for the purpose of supporting production of an existing field through observation, injection, water supply, etc.

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SUMMARY OF SAMPLE DATA - 1986

EXPLORATORY WELLS

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		4	3	36	43				
FOOTAGE	0 - 1,249	3,500	1,844	28,038	33,382	875	615	779	776
COSTS $		222,311	50,006	977,629	1,249,946	55,578	16,669	27,156	29,069
WELLS		9	20	95	124				
FOOTAGE	1,250 - 2,499	18,427	37,951	188,807	245,185	2,047	1,898	1,987	1,977
COSTS $		576,534	2,889,663	9,303,995	12,770,192	64,059	144,483	97,937	102,985
WELLS		38	37	211	286				
FOOTAGE	2,500 - 3,749	122,097	115,091	681,485	918,673	3,213	3,111	3,230	3,212
COSTS $		5,021,592	7,807,597	20,568,772	33,397,961	132,147	211,016	97,482	116,776
WELLS		100	31	390	521				
FOOTAGE	3,750 - 4,999	441,170	133,163	1,715,725	2,290,058	4,412	4,296	4,399	4,396
COSTS $		15,072,766	5,405,444	46,375,643	66,853,853	150,728	174,369	118,912	128,318
WELLS		128	85	571	784				
FOOTAGE	5,000 - 7,499	790,793	533,288	3,509,135	4,833,216	6,178	6,274	6,146	6,165
COSTS $		45,823,806	33,359,137	174,128,055	253,310,998	357,999	392,460	304,953	323,101
WELLS		89	59	359	507				
FOOTAGE	7,500 - 9,999	760,053	513,283	3,098,414	4,371,750	8,540	8,700	8,631	8,623
COSTS $		48,469,471	48,710,381	297,548,991	394,728,843	544,601	825,600	828,827	778,558
WELLS		68	63	243	374				
FOOTAGE	10,000 - 12,499	755,792	697,782	2,683,588	4,137,162	11,115	11,076	11,044	11,062
COSTS $		80,565,805	91,316,243	322,291,866	494,173,914	1,184,791	1,449,464	1,326,304	1,321,321
WELLS		34	45	156	235				
FOOTAGE	12,500 - 14,999	459,801	622,036	2,117,668	3,199,505	13,524	13,823	13,575	13,615
COSTS $		69,430,617	184,557,143	415,572,197	669,559,957	2,042,077	4,101,270	2,663,924	2,849,191
WELLS		8	26	69	103				
FOOTAGE	15,000 - 17,499	124,808	409,804	1,109,016	1,643,628	15,601	15,762	16,073	15,958
COSTS $		30,256,034	121,679,357	356,853,862	508,789,253	3,782,004	4,679,976	5,171,795	4,939,702
WELLS		1	5	22	28				
FOOTAGE	17,500 - 19,999	18,212	91,485	412,427	522,124	18,212	18,297	18,747	18,647
COSTS $		13,885,533	43,362,755	149,675,585	206,923,873	13,885,533	8,672,551	6,803,436	7,390,139
WELLS		1	1	15	17				
FOOTAGE	20,000 & OVER	21,253	21,850	324,646	367,749	21,253	21,850	21,643	21,632
COSTS $		13,915,174	16,956,258	210,303,086	241,174,518	13,915,174	16,956,259	14,020,206	14,186,736
TOTAL WELLS		480	375	2,167	3,022				
TOTAL FOOTAGE		3,515,906	3,177,577	15,868,949	22,562,432	7,325	8,474	7,323	7,466
TOTAL COSTS $		323,239,643	556,093,984	2,003,599,681	2,882,933,308	673,416	1,482,917	924,596	953,982

SUMMARY OF SAMPLE DATA - 1986

DEVELOPMENT WELLS

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS				AVERAGE DEPTH AND COST PER WELL			
		OIL WELLS	GAS WELLS	DRY HOLES	TOTAL	OIL	GAS	DRY	TOTAL
WELLS		1,183	38	88	1,309				
FOOTAGE	0 - 1,249	991,833	31,009	62,682	1,085,524	838	816	712	829
COSTS $		53,187,332	1,310,899	1,793,951	56,292,182	44,960	34,497	20,386	43,004
WELLS		1,412	150	146	1,708				
FOOTAGE	1,250 - 2,499	2,377,613	287,103	283,941	2,948,657	1,684	1,914	1,945	1,726
COSTS $		132,505,629	12,127,056	10,390,629	155,023,314	93,843	80,847	71,169	90,763
WELLS		1,207	451	246	1,904				
FOOTAGE	2,500 - 3,749	3,773,691	1,456,667	778,552	6,008,910	3,127	3,230	3,165	3,156
COSTS $		196,839,339	66,914,562	21,067,658	284,821,559	163,081	148,369	85,641	149,591
WELLS		1,030	295	317	1,642				
FOOTAGE	3,750 - 4,999	4,522,587	1,258,746	1,383,119	7,164,452	4,391	4,267	4,363	4,363
COSTS $		178,208,947	48,606,560	37,780,851	264,596,358	173,018	164,768	119,182	161,143
WELLS		1,249	633	438	2,320				
FOOTAGE	5,000 - 7,499	7,813,591	3,917,451	2,684,897	14,415,939	6,256	6,189	6,130	6,214
COSTS $		467,955,031	195,425,014	103,323,502	766,703,547	374,664	308,728	235,898	330,476
WELLS		1,213	433	305	1,951				
FOOTAGE	7,500 - 9,999	10,569,002	3,781,215	2,634,480	16,984,697	8,713	8,733	8,638	8,706
COSTS $		890,448,140	306,831,087	185,829,699	1,383,108,926	734,088	708,617	609,278	708,923
WELLS		449	272	186	907				
FOOTAGE	10,000 - 12,499	4,970,663	3,022,658	2,072,688	10,066,009	11,071	11,113	11,143	11,098
COSTS $		767,019,726	368,299,553	182,577,576	1,317,896,855	1,708,285	1,354,043	981,600	1,453,029
WELLS		128	129	90	347				
FOOTAGE	12,500 - 14,999	1,709,252	1,738,518	1,214,297	4,662,067	13,354	13,477	13,492	13,435
COSTS $		331,436,782	349,161,527	195,230,174	875,828,483	2,589,350	2,706,679	2,169,224	2,524,002
WELLS		25	61	37	123				
FOOTAGE	15,000 - 17,499	393,344	982,023	587,384	1,962,751	15,734	16,099	15,875	15,957
COSTS $		118,499,513	324,096,915	176,716,840	619,313,268	4,739,981	5,313,064	4,776,131	5,035,067
WELLS		2	28	21	51				
FOOTAGE	17,500 - 19,999	36,640	507,030	387,985	931,655	18,320	18,108	18,475	18,268
COSTS $		6,832,395	160,485,838	84,067,171	251,385,404	3,416,198	5,731,637	4,003,199	4,929,126
WELLS		1	2	6	9				
FOOTAGE	20,000 & OVER	20,277	45,242	130,506	196,025	20,277	22,621	21,751	21,781
COSTS $		5,970,623	22,491,314	65,189,442	93,651,379	5,970,623	11,245,657	10,864,907	10,405,709
TOTAL WELLS		7,899	2,492	1,880	12,271				
TOTAL FOOTAGE		37,178,493	17,027,662	12,220,531	66,426,686	4,707	6,833	6,500	5,413
TOTAL COSTS $		3,148,903,457	1,855,750,325	1,063,967,493	6,068,621,275	398,646	744,683	565,940	494,550

SUMMARY OF SAMPLE DATA - 1986

SINGLE-COMPLETION WELLS

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS		AVERAGE DEPTH AND COST PER WELL	
		OIL WELLS	GAS WELLS	OIL	GAS
WELLS		1,185	41		
FOOTAGE	0 - 1,249	993,511	32,853	838	801
COSTS $		53,332,282	1,360,905	45,006	33,193
WELLS		1,413	167		
FOOTAGE	1,250 - 2,499	2,385,133	318,891	1,688	1,910
COSTS $		132,064,822	14,836,308	93,464	88,840
WELLS		1,241	480		
FOOTAGE	2,500 - 3,749	3,883,598	1,546,444	3,129	3,222
COSTS $		201,348,441	72,740,087	162,247	151,542
WELLS		1,121	312		
FOOTAGE	3,750 - 4,999	4,924,038	1,329,895	4,393	4,262
COSTS $		189,621,878	49,743,938	169,154	159,436
WELLS		1,352	679		
FOOTAGE	5,000 - 7,499	8,442,239	4,205,390	6,244	6,194
COSTS $		505,584,784	207,477,313	373,953	305,563
WELLS		1,219	448		
FOOTAGE	7,500 - 9,999	10,593,827	3,918,227	8,691	8,746
COSTS $		869,100,280	329,562,182	712,962	735,630
WELLS		484	303		
FOOTAGE	10,000 - 12,499	5,369,086	3,369,050	11,093	11,119
COSTS $		768,079,732	415,927,076	1,586,942	1,372,697
WELLS		155	170		
FOOTAGE	12,500 - 14,999	2,071,758	2,309,705	13,366	13,587
COSTS $		373,188,133	526,602,584	2,407,665	3,097,662
WELLS		33	87		
FOOTAGE	15,000 - 17,499	518,152	1,391,827	15,702	15,998
COSTS $		148,755,547	445,776,272	4,507,744	5,123,865
WELLS		2	30		
FOOTAGE	17,500 - 19,999	37,227	543,974	18,614	18,132
COSTS $		17,037,752	193,018,585	8,518,876	6,433,953
WELLS		2	3		
FOOTAGE	20,000 & OVER	41,530	67,092	20,765	22,364
COSTS $		19,885,797	39,447,572	9,942,899	13,149,191

SUMMARY OF SAMPLE DATA - 1986

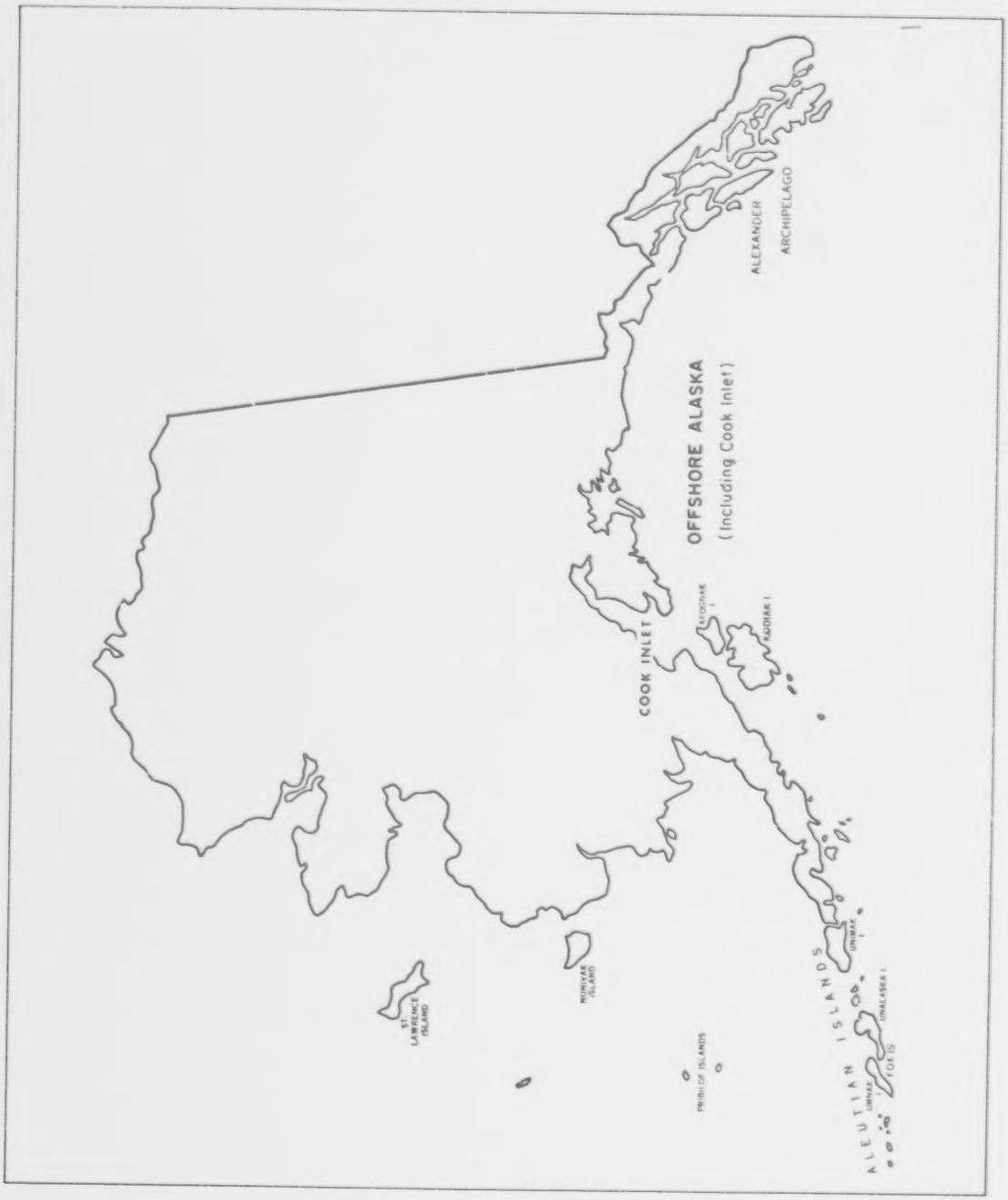
MULTIPLE-COMPLETION WELLS

	DEPTH INTERVAL (FEET)	TOTAL NUMBER OF WELLS, FOOTAGE DRILLED, AND COSTS		AVERAGE DEPTH AND COST PER WELL	
		OIL WELLS	GAS WELLS	OIL	GAS
WELLS	0 - 1,249	2	--		
FOOTAGE		1,822	--	911	--
COSTS $		77,361	--	38,681	--
WELLS	1,250 - 2,499	8	3		
FOOTAGE		10,907	6,163	1,363	2,054
COSTS $		1,017,341	180,411	127,168	60,137
WELLS	2,500 - 3,749	4	8		
FOOTAGE		12,190	25,314	3,048	3,164
COSTS $		512,490	1,982,072	128,123	247,759
WELLS	3,750 - 4,999	9	14		
FOOTAGE		39,719	62,014	4,413	4,430
COSTS $		3,659,835	4,268,066	406,648	304,862
WELLS	5,000 - 7,499	25	39		
FOOTAGE		162,145	245,349	6,486	6,291
COSTS $		8,194,053	21,306,838	327,762	546,329
WELLS	7,500 - 9,999	83	44		
FOOTAGE		735,228	376,271	8,858	8,552
COSTS $		69,817,331	25,979,286	841,173	590,438
WELLS	10,000 - 12,499	33	32		
FOOTAGE		357,369	351,390	10,829	10,981
COSTS $		79,505,799	43,688,720	2,409,267	1,365,273
WELLS	12,500 - 14,999	7	4		
FOOTAGE		97,295	50,849	13,899	12,712
COSTS $		27,679,266	7,116,086	3,954,181	1,779,022
WELLS	15,000 - 17,499	--	--		
FOOTAGE		--	--	--	--
COSTS $		--	--	--	--
WELLS	17,500 - 19,999	1	3		
FOOTAGE		17,625	54,541	17,625	18,180
COSTS $		3,680,176	10,830,008	3,680,176	3,610,003
WELLS	20,000 & OVER	--	--		
FOOTAGE		--	--	--	--
COSTS $		--	--	--	--

J.A.S SAMPLE DISTRIBUTION 1982 - 1986

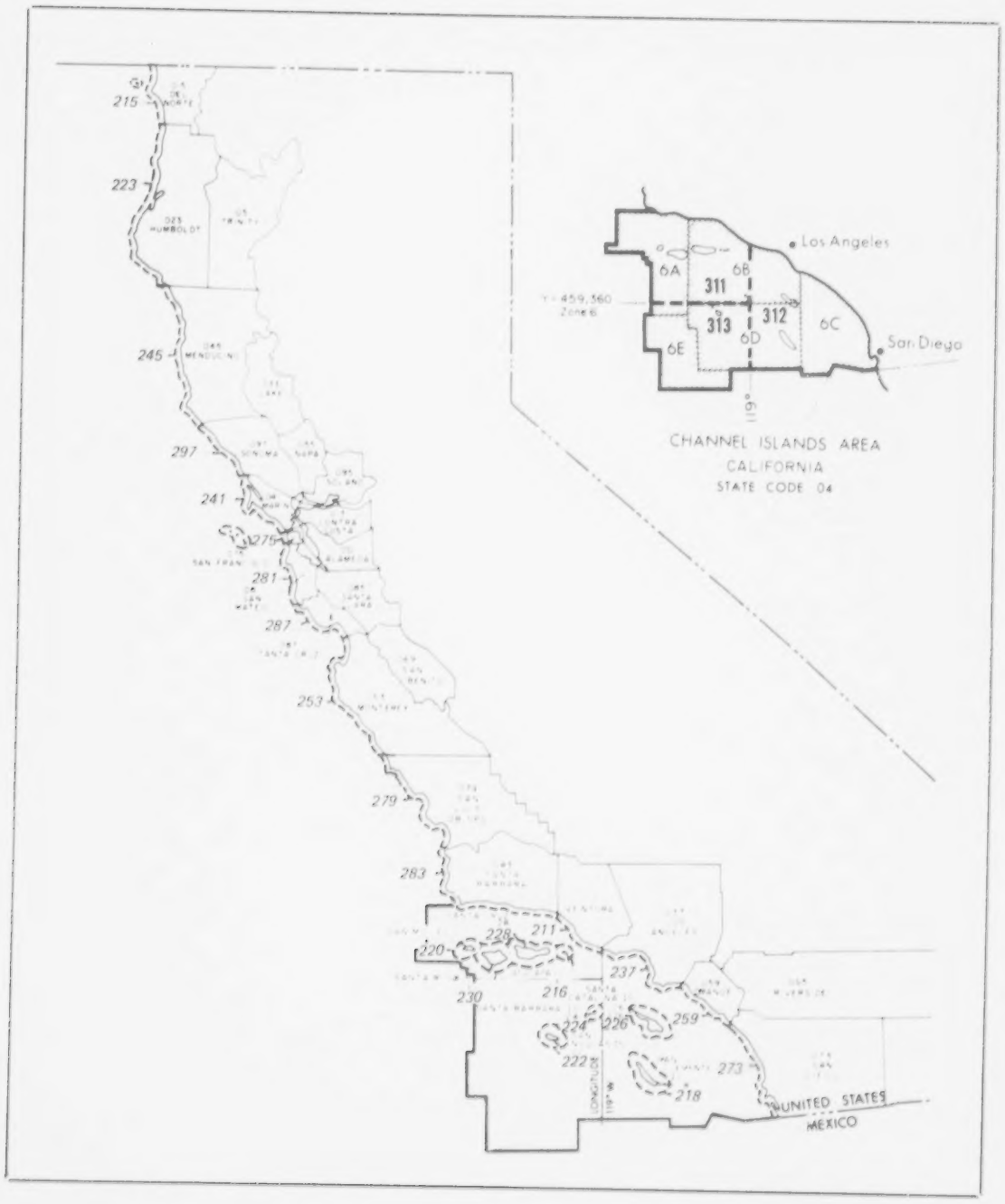
No. of Wells Drilled	1982		1983		1984		1985		1986	
	No. of Co's	No. of Wells	No. of Co's	No. of Wells	No. of Co's	No. of Wells	No. of Co's	No. of Wells	No. of Co's	No. of Wells
1-4	813	1,724	735	1,508	740	1,550	719	1,491	775	1,501
5-9	315	2,122	315	2,087	291	1,912	281	1,818	214	1,382
10-24	320	4,772	283	4,198	255	3,901	256	3,916	164	2,460
25-49	105	3,631	86	2,876	87	2,968	66	2,209	41	1,356
50-99	36	2,463	28	1,859	38	2,629	31	2,032	19	1,373
100 & over	40	11,828	28	10,110	26	10,483	33	13,572	23	7,221
Total	1,629	26,540	1,475	22,638	1,437	23,443	1,386	25,038	1,236	15,293

MAP I
SUBDIVISIONS OF ALASKA



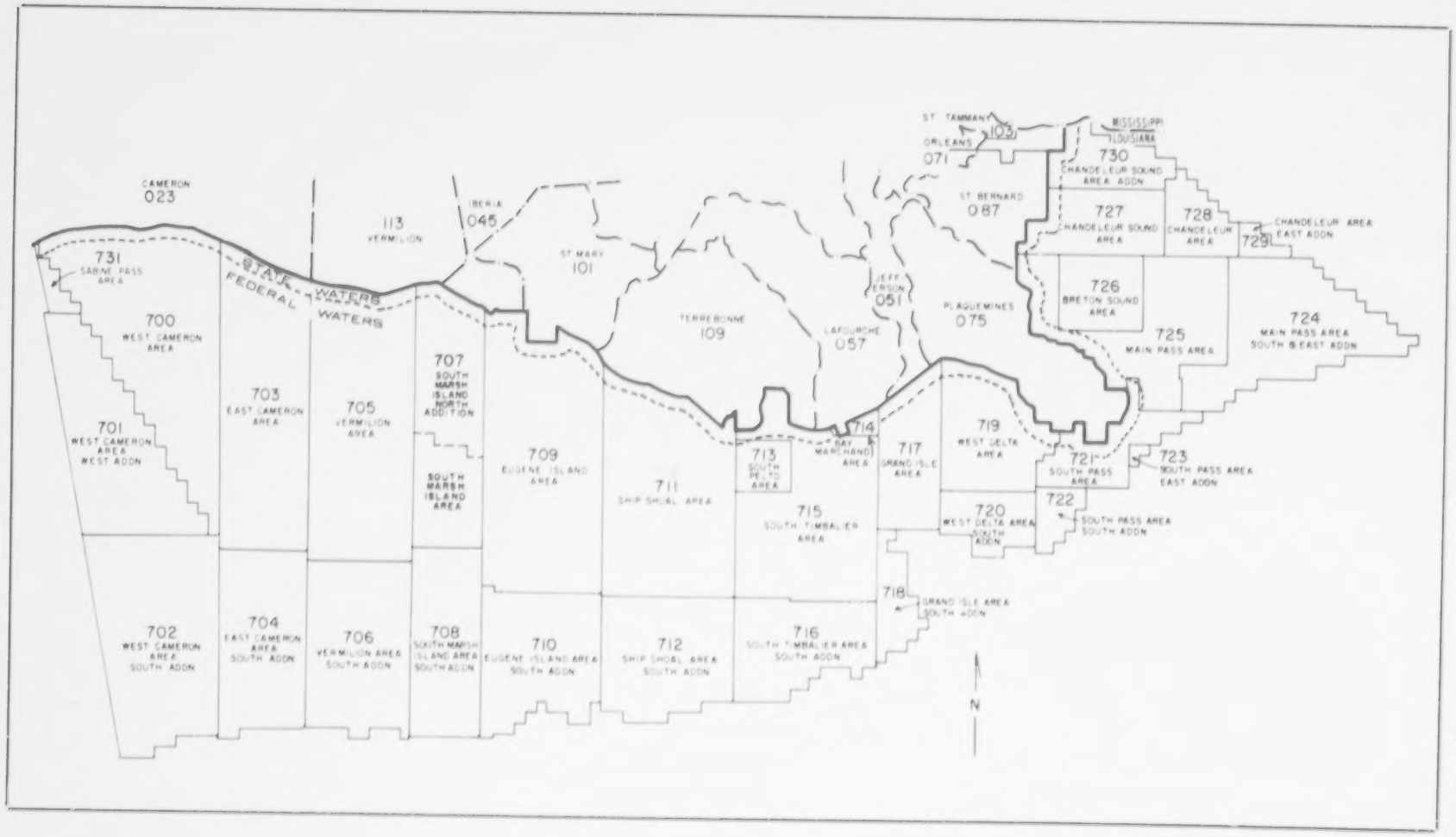
MAP II
SUBDIVISIONS OF CALIFORNIA

MAP III
CALIFORNIA OFFSHORE



MAP IV
SUBDIVISIONS OF LOUISIANA

MAP V
LOUISIANA OFFSHORE

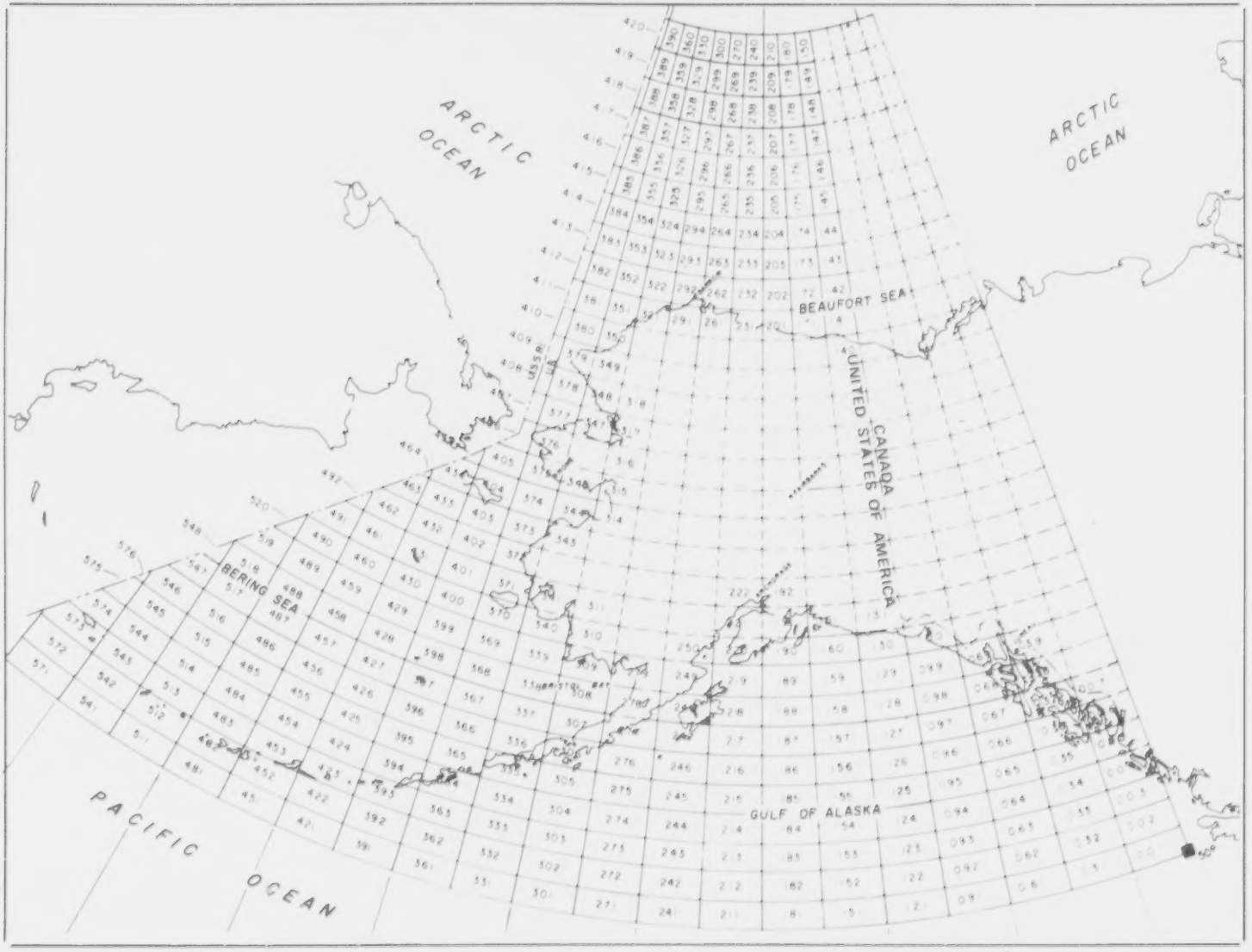

CAMERON 023
113 VERMILION
IBERIA 045
ST MARY 101
TERREBONNE 109
LAFOURCHE 057
JEFFERSON 051
PLAQUEMINES 075
ST BERNARD 087
ST TAMMANY 103
ORLEANS 071
MISSISSIPPI
LOUISIANA
STATE WATERS
FEDERAL WATERS
731 SABINE PASS AREA
700 WEST CAMERON AREA
701 WEST CAMERON AREA WEST ADDN
702 WEST CAMERON AREA SOUTH ADDN
703 EAST CAMERON AREA
704 EAST CAMERON AREA SOUTH ADDN
705 VERMILION AREA
706 VERMILION AREA SOUTH ADDN
707 SOUTH MARSH ISLAND NORTH ADDITION
SOUTH MARSH ISLAND AREA
708 SOUTH MARSH ISLAND AREA SOUTH ADDN
709 EUGENE ISLAND AREA
710 EUGENE ISLAND AREA SOUTH ADDN
711 SHIP SHOAL AREA
712 SHIP SHOAL AREA SOUTH ADDN
713 SOUTH PELTO AREA
714 BAY MARCHAND AREA
715 SOUTH TIMBALIER AREA
716 SOUTH TIMBALIER AREA SOUTH ADDN
717 GRAND ISLE AREA
718 GRAND ISLE AREA SOUTH ADDN
719 WEST DELTA AREA
720 WEST DELTA AREA SOUTH ADDN
721 SOUTH PASS AREA
722 SOUTH PASS AREA SOUTH ADDN
723 SOUTH PASS AREA EAST ADDN
724 MAIN PASS AREA SOUTH & EAST ADDN
725 MAIN PASS AREA
726 BRETON SOUND AREA
727 CHANDELEUR SOUND AREA
728 CHANDELEUR AREA
729 CHANDELEUR AREA EAST ADDN
730 CHANDELEUR SOUND AREA ADDN
N

MAP VI
SUBDIVISIONS OF NEW MEXICO

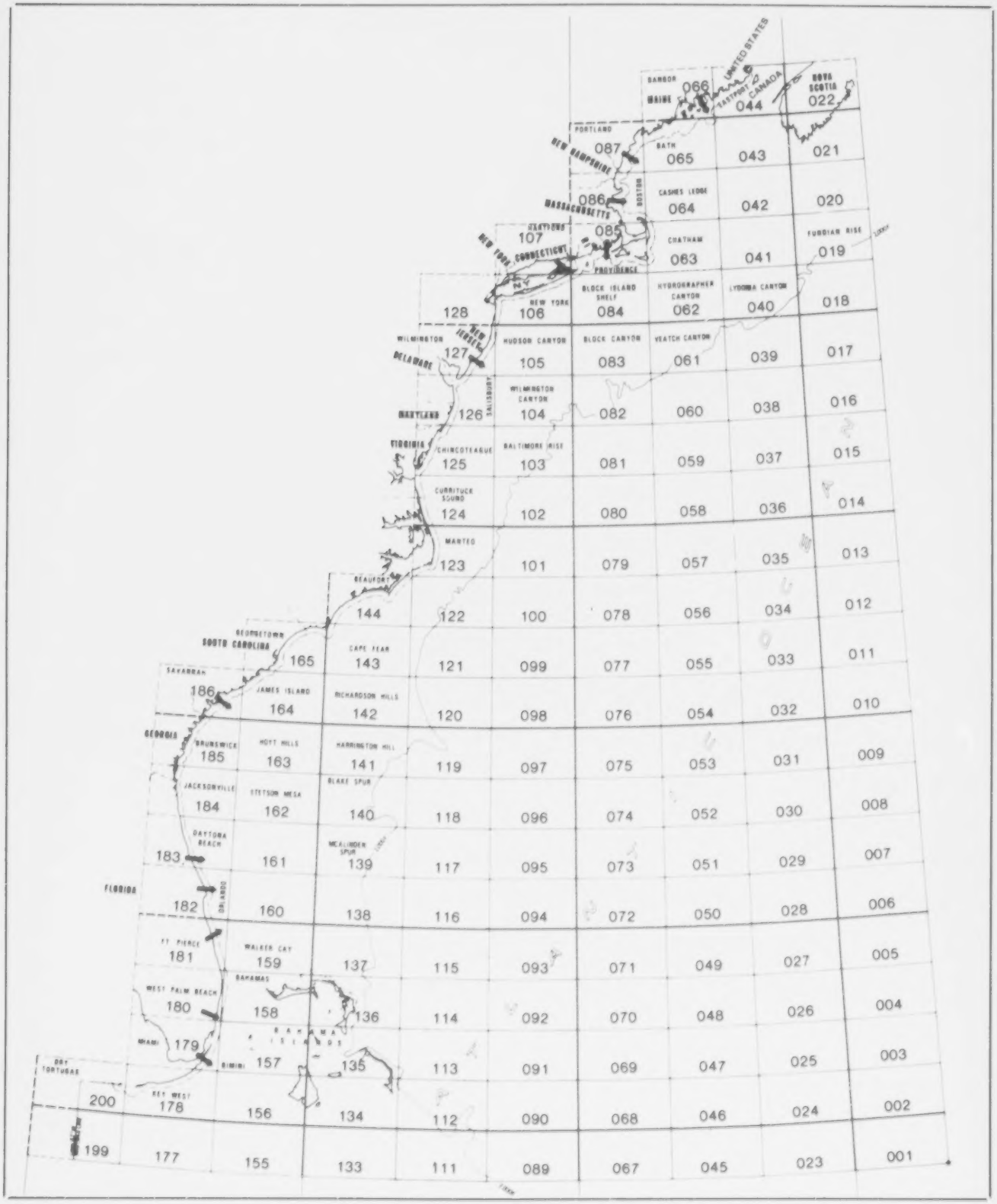
MAP VII
SUBDIVISIONS OF TEXAS

MAP VIII
TEXAS OFFSHORE

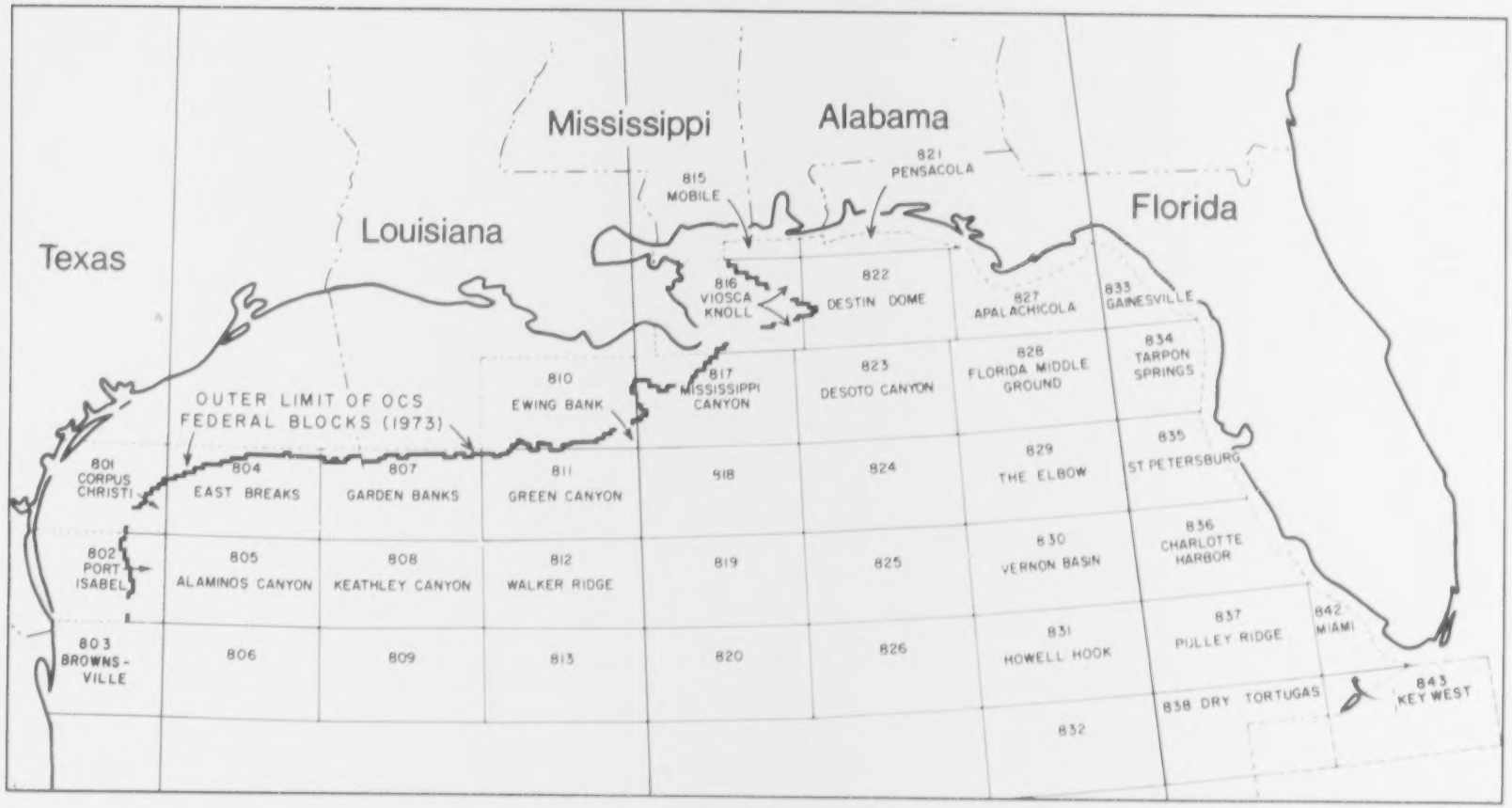
MAP IX
SUBDIVISIONS OF
OFFSHORE FEDERAL WATERS
ALASKA



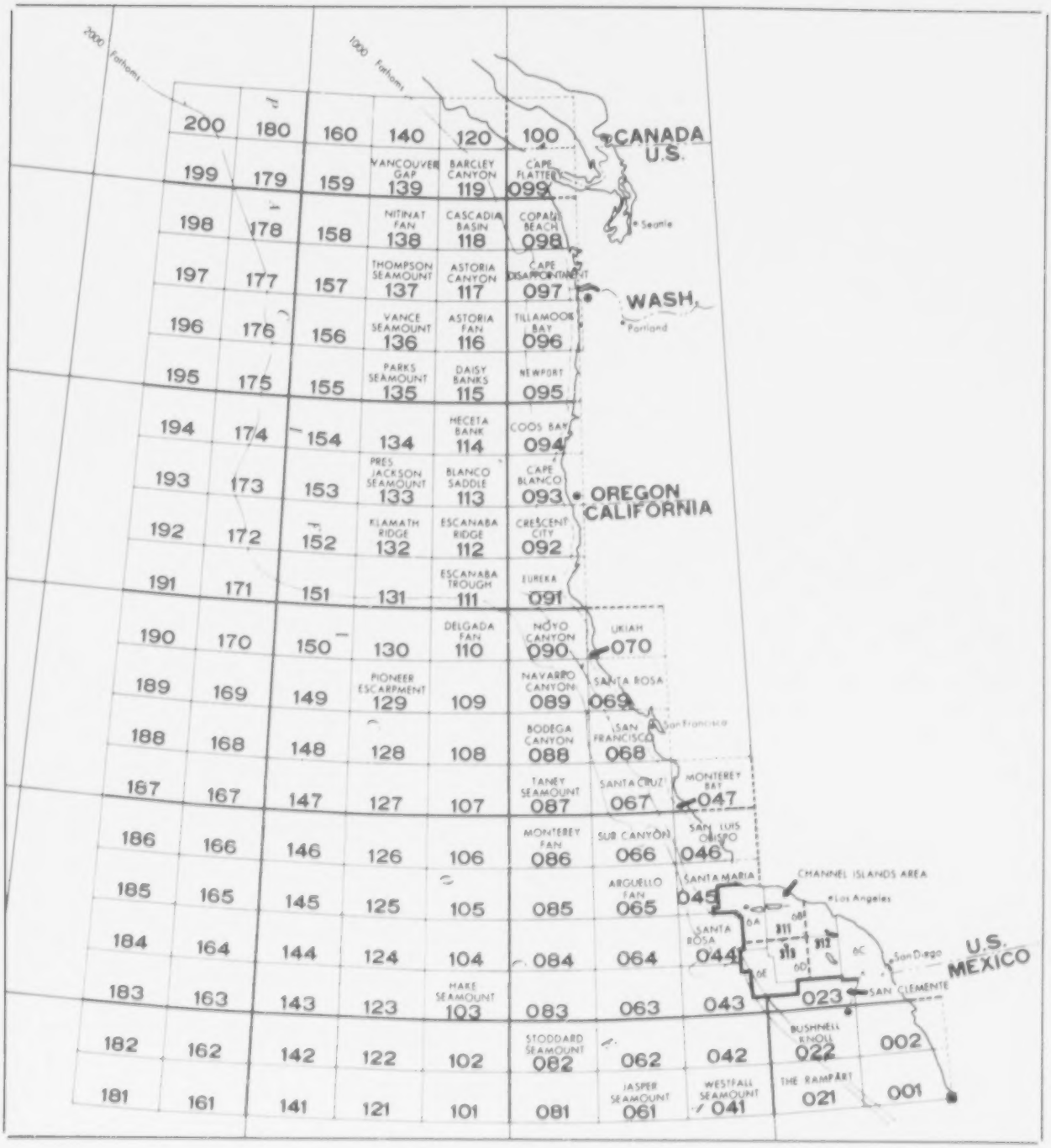
MAP X
SUBDIVISIONS OF OFFSHORE FEDERAL WATERS
ATLANTIC COAST



MAP XI
SUBDIVISIONS OF
OFFSHORE FEDERAL WATERS
GULF OF MEXICO—Northern



MAP XII
SUBDIVISIONS OF
OFFSHORE FEDERAL WATERS
PACIFIC COAST



JOINT ASSOCIATION SURVEY METHODOLOGY

API publishes annual estimates of drilling costs in the U.S. based on a sample of approximately 41 % of all wells drilled and 66 percent of total expenditures for well drilling. The results, published in the Joint Association Survey (JAS), show estimated average drilling costs and total drilling expenditures by state (or other political region), by depth, and by well type. API has cost data only for those wells within the JAS sample. Drilling costs for wells not reported in the sample must be estimated. The API receives information on depth, type, and location of non-reported wells, and uses this information along with reported costs for similar wells to estimate costs for non-sample wells.

REGRESSION ESTIMATES OF WELL COSTS. The current JAS methodology is a modified version of the methodology used since 1978. Costs for non-reported wells are modeled as a function of the depth of the well, the type of well, and the general location of the well. A stepwise general linear regression is fit to the sample data, with the statistical routine chosing the variables that best fit the data for the particular type of well and area. The routine chooses up to three forms of the depth term; inverted depth, depth, and depth squared, and among a set of dummy classification variables for type of well, exploratory or development,single or multiple completion. The overall sample for any area is first stratified by type and separate regressions are run for each type of well. A regression is also run for the total sample for the area to insure that an alternative is available should the separate models prove inadequate.

The general functional form of the regression equation is:

(1) log (cost per foot) = a + b 1 depth + c depth + d depth2 + p1I1 + ... + p9I9

where depth is in thousands of feet, and the I1 through I9 are indicator variables for well type.1

Except for the 1 depth term, this equation is a polynomial, a functional form often used in regression analysis when an *a priori* functional form has not been specified. (Higher order polynomials were investigated, but did not noticeably improve the fit). The 1 depth term helps reflect the decreasing cost per foot observed at shallower depths in some areas. (As depth increases, 1 depth decreases in size, so the term's contribution to estimated cost per foot can be large for shallow depths, but becomes small at greater depths).

The inclusion of indicator variables allows the level of costs to vary by well type. Since the above equation is in log form, different well types are estimated to be proportional to one another, with the proportion being determined by the regression coefficients of the indicator variables. (When oil, gas, or dry wells are regressed separately, fewer indicator variables are needed since there are fewer well types involved in each regression).

Because the regression equation is in log form, estimates on it will be biased downwards. Multiplying the original estimates by the correction factor

(2) $$\frac{\text{sum of actual costs for sample}}{\text{sum of estimated costs for sample}}$$

yields unbiased estimates.

PROCEDURE. Once the JAS sample data have been collected and verified, the regression estimates for each geographic area are made using equations (1) and (2). In some areas, oil, gas, and dry wells are combined in one equation. When the sample is large enough, a separate equation is used for each of these three well types. Inevitably, some non-sample wells fall outside the depth range of the sample. Since, statistically speaking, there is no reason to expect the regression estimates to be "reasonable" for these depths (or area) where there is no sample, some of these costs must be estimated independently based on costs in similar areas or on previous year's data. This was necessary for approximately 5.7 percent of all unreported wells in 1986.

1 An indicator variable takes on the value 1 if the observation is a member of a certain class, and a value of 0 if it is not. In the above equation, the nine indicator variables identify whether a well is one of the ten well types (for example, exploratory oil single completion, development gas multiple completion, exploratory dry, and so on). The tenth well type is identified when all indicator variables are 0.

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